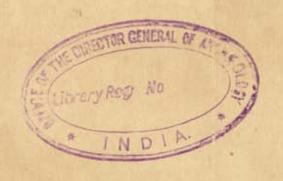
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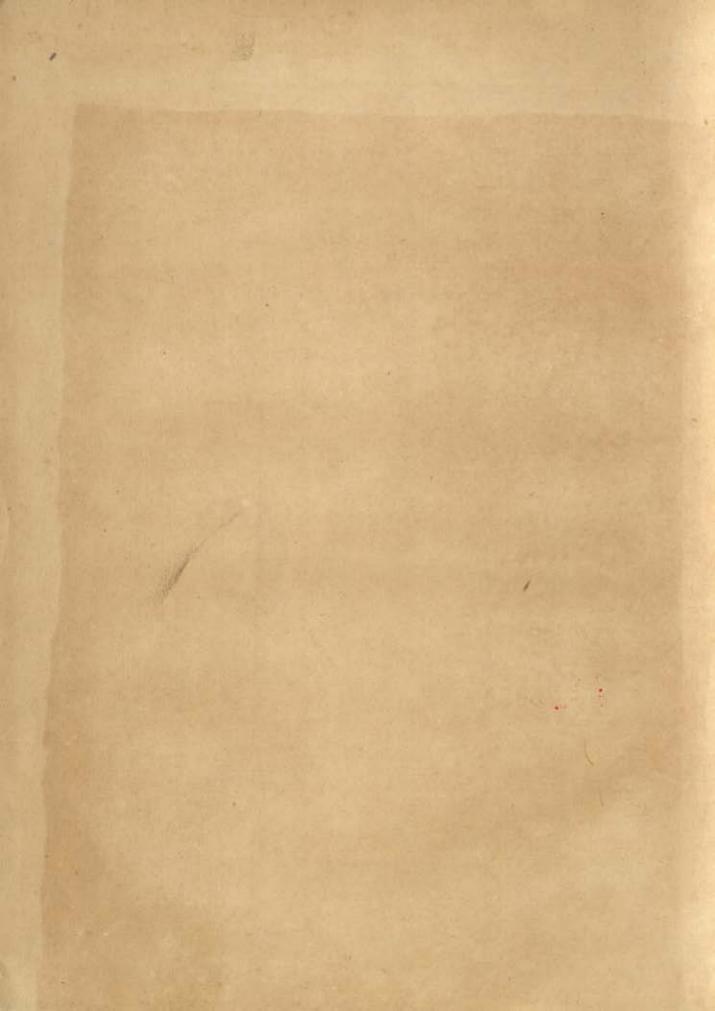
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Remarks on the State of ACRICULTURE, in the District of DINA'JPUR.

BY W. CAREY.

The foil of the district of Dinájpur is considerably diversified. In the southern part the ground rises in gentle acclivities, which run from north to south, and are divided from each other by vallies running between them; the whole resembling large waves, or rather the appearance of the sea when there is a great swell. The width of each valley is two or three miles, and that of the elevations about the same. Each valley is watered with one or two little streams, as the Tanguam, the Pürnabhavá, and several others, which empty themselves either into the Mahánandá or the Ganges. These small rivers swell in the rainy season to large lakes, sifty or sixty miles in length, and two or three in breadth, overslowing all the low lands, which are dry in the cold sea-

fon. These vallies, at the distance of fifty miles from the Ganges, are scarcely higher than the surface of its waters; when therefore that river is swoln by the periodical rains, the waters of the vallies are not only prevented from running off, but are so much increased as to be navigable for vessels of very considerable burden,

The foil of the elevated portions of land is in general a stiff clay, in some places black, and somewhat porous, in others white and tenacious. The foil of some of the vallies resembles that of the elevated parts, and that of others is rich and loamy, with a substratum, at a greater or lesser depth, of the same kind of clay which forms the higher grounds. These low lands are for the most part covered with long grass of different sorts, and afford pasture to a great number of buffaloes and to large herds of other cattle.

The northern parts of the district are more level than the southern ones, have a loamy soil, and are well cultivated. Some tracts of clay land are, however, to be found, and it is probable that clay is the sub-firatum of the whole.

The higher lands in the fouthern part of the district are principally inhabited by Musulmans, and the vallies by Hindus. The mode of cultivation and the productions of the elevated parts, differ widely from those of the vallies, so that those who have been accustomed to one of these sorts of land only, can seldom manage the other to advantage.

On the higher clay lands very little besides rice is produced, and, except in very small spots which are well manured, only one crop in

a year. The loamy vallies which do not lie so low as to endanger the inundating of the crop, produce, not only rice, but also a good crop of mustard, or pulse in the cold season. The land which produces two crops in a year is called *Palli*, and is usually let at a rupee and half per Bighá. That which produces only one crop is called *Khár*, and is usually let at twelve annas per Bighá.

THE people of the district of Dinajpur are, in general, extremely poor, and their farming utenfils are therefore proportionably fimple and wretched. A plough drawn by two bullocks, ferves to prepare the foil. The plough is composed of four pieces; viz: the Lángal or body of the plough, which is a piece of wood forming two fides of an obtufe angled triangle, the other file being wanting, with a hole near the obuste angle to admit a staff of wood or bamboo about fix feet long, called the Is'. This staff may be called the beam of the plough, and is the part to which the bullocks are yoked, going between them and resting on the yoke by which they are coupled. The ploughshare (Phál) is a flat plate of iron, nearly of a lozenge shape, which is fastened to the under part of the Lángal, to prevent its being worn by the foil. The handle is a piece of wood, or bamboo, about two feet long, fastened to the upper extremity of the Lángal, and furnished, at a small distance from its upper end, with a pin about fix inches long, called the Mut, to affift the hand in guiding the plough.

The oxen draw double, or fide by fide, being coupled together with the Juál, or yoke, which passes over the necks of both of them at once. The lower edge, which lies on the necks of the cattle, is straight.

The upper edge has two elevations, one over the neck of each ox, but is cut down at the middle and at each end, so as to remain about two inches deep. Four bamboo pins are passed through the yoke, one at each end, and two in the middle, which descending on each side the animal's neck, are connected by a cord under its throat. The beam of the plough rests on the middle of the yoke and is sastened to it by a cord.

ONLY one person attends a plough, holding the handle in one hand, and occasionally pulling the tails of the oxen with the other, to guide them, or striking them with a stick to quicken their pace. A pair of oxen may be purchased for fix or eight rupees, a plough for sive annas, and a yoke for four. An instrument called Mai is drawn over the field after it has been sufficiently ploughed. This may be called the harrow of the Hindus. It is made of bamboo, in the form of a ladder, and is four or sive seet in length. A cord, sastened to the centre of this rude instrument, is connected with the centre of the yoke, and the driver stands on the harrow, assisting its operation by his weight, and guiding the cattle with his hands. Land pulverized and laid smooth with the Mai retains its moisture, and is sit to receive seed in dry weather, several days longer than it would be if this was neglected. The Hindus call the operation, when performed for that purpose, Rasbandhan, or the consining of the moisture.

In dry feafons it is often necessary to water the fields. For this purpose an instrument called a Jant is used. The Jant is a trough of, light wood, from twelve to fixteen feet long, somewhat curved to admit a greater depth in the middle, the bottom is five or fix inches wide, the

height of the fides in the middle part is fix or eight inches, gradually decreasing towards the ends, one of which is stopped with a square board to prevent the water from running back and being loft. When this instrument is used, it is flung to three bamboos placed erect and croffing each other in the centre; a long and heavy bamboo, loaded at the further end with a large ball of earth, is then fastened to the end which is to be plunged into the water, and thrown over the three erect bamboos, resting on the top of them. A person standing on a stage, even with, or fomewhat below the furface of the water of a pond, river &c. then plunges the end of the Jant into the water, with his foot, by which means it is filled. The weight at the end of the long bamboo affifts him in raifing it out of the water, and throwing its contents into a small refervoir, or pit, from which it is conveyed into the fields, by channels cut for that purpose. Two feet, or two and a half, is the height to which water can be thrown with effect by this machine; when the height is greater, two, three or more Jants are used, and in that case the water is thrown into small reservoirs or pits, at a proper height above each other, and fufficiently deep to admit the next Jant to be plunged deep enough to fill it. Water is by this means fometimes conveyed to the distance of a mile or more on every side of a large tank or refervoir of water.* I have feen fifty or fixty Jants at one

^{*} Qu. Is not this the watering with the foot mentioned in Scripture, Deut. xi. ver. 10. and may there not be an allufion to the facility with which this water is directed at the will of the husbandman, in Prov. xxi. ver. 1?

time, in a large receptacle of water called Mahipál-dighi, about fix cofs from Dinájpur.

To remove earth from one place to another, a yoke of bamboo is furnished with two appendages, called Bhárua, somewhat resembling a coarse sieve, the outside composed of split bamboos wattled or twisted over each other, and the middle part of twine, woven somewhat like the bottom of a sieve. These vessels are about a foot and half in diameter; when loaded with earth, or any other substance, they are carried with the yoke. The yoke lies across one shoulder, one weight hanging before and the other behind, and is occasionally shifted from one shoulder to the other.

THE Kodáli, or digging-hoe, is, in this district, set much more towards the earth than in the southern parts of Bengal, sorming an angle of about fixty degrees with the handle, whereas about Calcutta the angle is not more than thirty degrees. This instrument is used to dig the earth, or to grub up roots, and destroy the coarse grass, when land is to be first broken up. The Kodáli is a very useful instrument, answering the purpose of both spade and hoe.

THE last instrument of husbandry which I shall mention is the Kastya or Indian sickle: The blade is curved, and the edge toothed like a sickle, but it is much smaller and more rude than the European one. The length of the blade is about eight or ten inches, and its greatest width one and a half. It is fixed in a rude handle; and is used to cut corn, grass, or even brushwood upon occasion, being to the

Hindu a very useful instrument, although a European labourer would scarcely pick one of them up, if he saw it lie in the road.

RICE is the staple production of the dictrict. Four kinds (including several varieties) are principally cultivated; viz. the Bhaduí, so called from its ripening in the month Bhádar, the Hemat so denominated from its ripening in the cold season, the Buná, and Bohara.

The first of these is chiefly, though not exclusively, cultivated on the lower, and loamy lands; on these soils it is constantly sown by broad cast, in March, April or May, and the quantity sown depends upon the quantity of rain which falls in those months. The season of cultivation is sometimes extended near a month longer than it would otherwise be, by transplanting the rice, while young, into the fields, or the more elevated lands. When it is sown early on the higher lands, a second crop is sometimes produced upon the same spot; but, that which is sown late in the season, ripening proportionably late, so much interferes with the planting of the Hemat rice, that the latter crop is often searcely worth the gathering.

This rice, when fown on the lower and loamy foils, requires weeding. A large quantity of weeds, particularly panicum ciliare, often fprings up among it: these weeds, if not extirpated, infallibly ruin the crop. It is also necessary to open the foil, after a heavy shower, by drawing a large drag over it; but no other attention is requisite, till the harvest, when it is cut and housed in the usual way.

THE Hemat rice is usually cultivated on the higher and strong lands, a stiff soil being better calculated to retain the water after the end of

the periodical rains. This rice is usually sown at the end of May, or the beginning of June, in small beds, as thick as it can possibly grow. The plants come up in three or four days after the seed is sown, till which time the ground is kept barely moist: after the plants appear it should be kept quite moist, but not slooded. As soon as the rains commence and the earth is well watered, this rice is planted out in beds, (or compartments) each of which is surrounded with a balk, or border, about ten inches high, and a foot wide, to prevent the water from running off.

When a field is first formed, these mounds or borders are thrown up with the Kodáli. The earth is then repeatedly ploughed, till it is completely mixed with the water, and reduced to a foft mud. Five, fix, and fometimes eight ploughings are necessary, to destroy the weeds and completely diffolve the clods, after which it is smoothed by drawing the Mai over it, till the furface is so level that the water stands at an equal height in every part. When the field is thus prepared, the young plants are transplanted from the feed bed by the hand; eight or ten of them being usually planted in one hole. These holes, which are about nine inches afunder, are made by forcing the hand with the young plant into the mud; the plants are left there in an erect position, after which the admission of water settles the roots. When the whole spot is planted, water is admitted from a neighbouring compartment, or from a ditch, a trench or some other reservoir, and if possible conflantly kept at the height of at least three (or four) inches. If there be too much water in the field, it is allowed to run off, by cutting a passage for it through the border, and when a sufficient quantity is run

off, the rest is retained, by shutting the passage with a clod of soft earth. This crop requires no weeding, or at most but a very trisling one, the water being sufficient to destroy the noxious weeds. If the season be very dry, the field must be supplied with water from some neighbouring pond or reservoir, as the only means of preserving the crop: attention to this is peculiarly necessary while the plants are young, for if the earth be permitted to grow hard, the plants seldom thrive afterwards; when they have acquired a fize sufficient to overshadow the ground, the moisture is retained for a longer time, and the crop suffers less, but water is absolutely necessary to the perfection of a crop of rice. In November this crop begins to ripen, and the harvest is usually finished by the end of December. As there is little fear of rain at this season, the crop is housed and stacked, without any loss or difficulty.

The Buná rice is usually fown in April or May, in low lands, where a flood of several feet deep may be expected; if the floods come suddenly while the plants are young, the water rises above them and the crop is lost; but if the plants are strong and the water increases gradually, the rice will grow as fast as the water rises. This crop will answer tolerably well, if the water be four, six, or even eight feet in depth, the stalks sometimes acquiring the length of ten or even sisteen feet; but as they are weak and lie in an oblique position, they do not easily rise above eight feet of water. This crop ripens in November. The upper part of the plants on one man's land being drawn by a gentle stream, or by some other cause, often fall on his neighbour's field and occasion quarrels at the time of reaping.

THE Bohara rice is fown in October or November like the Hemat, and about January planted at the bottoms of tanks, or pits, or on very low ground where it can be supplied with water. It is treated in every respect like the Hemat, and ripens in April or May. This is an excellent fort of rice, but the quantity cultivated is necessarily small.

THE next article of cultivation is indigo, a plant for which many parts of this diffrict are improper, as it will not grow on the white clay lands called Balka, is sparingly produced on the black or red clays, and as most of the soft and loamy parts lie so low as to be subject to sudden inundations, which infallibly destroy the crop.

The proper season for sowing indigo is in April and May. Some have sown it at the end of September or the beginning of October, and others in any month from October to March. That sown in September, or October, or even in November, will frequently produce a crop, if the land be not low and damp. It is better to sow, on low damp soils, in December, January and February, when the season will soon become warm enough to obviate the danger arising from the soil. Some have sown a winter crop with this indigo, which as it affords the young plants a shelter in the cold season, may be esteemed a good method. Mustard, ripening very early, is the most improper for this purpose, because it leaves the indigo exposed at the very season in which it requires shelter. The young plants, at this season of the year, are often greatly injured by the treading of cattle; and the crop is seldom so good as that which is sown in the proper season. If the season be savorable, and the whole crop be sown in March, April or

May, (for which repeated rain is absolutely necessary,) and be weeded before the periodical rains set in, an abundant crop may be expected. Indigo sown in June seldom repays the labour of the husbandman, the rains, then setting in, usually injure the plant while young, or produce weeds in such abundance, that it is choaked by them, and generally perishes.

The present method of cultivating indigo is subject to many inconveniencies, and therefore liable to many objections; but as the whole business is conducted by giving advances of money to the Ryots, previously to their sowing the seed, and by receiving the produce at a certain number of bundles of a given measure for a rupee, and as many of them scarcely ever intend to sufficult, especially as the devising of it must depend upon experiments, to the making of which the poverty and prejudices of the cultivators would prove an almost invincible obstacle.

are fown in April, May, or June. The fibres of these plants are much used for cordage, and for making sackcloth, and are very valuable for these purposes. The Eschynomene cannabina, is sometimes though but seldom sown in this district, but is more abundantly cultivated in the southern parts of Bengal. The fibre of this plant is less valuable than that of the Corchorus. There are two varieties of the Crotalaria juncea; one, sown at this season, often grows ten or twelve feet high; the other variety is sown in October, and rises to the height of sour or sive seet.

AFTER the earth is properly ploughed, cleanfed, and pulverized, the feeds of these plants are sown very thickly. The natives say that they should be sown so close together that a serpent cannot creep between them. This prevents the plants from throwing out branches, which would be highly injurious to the fibre.

As the growth of these plants is extremely rapid, the crops suffer but little from weeds; if the weeds however should be numerous, they must be extirpated by the hand.

When the Sana* has done flowering, and the feed veffels have nearly attained their full fize, fometime before the feeds ripen, it is cut down, and tied in small bundles, each containing ten or a dozen plants. The bundles are then set upright in water (about a foot or a foot and half of the lower part of the stalk being immersed) and continue in that situation one day; by this means the upper, and comparatively tender, part of the stalk is somewhat dried. This occasions a greater similarity in the quality of the sibre taken from different parts of the same plant.

AFTER the Sana has thus flood erect for one day, it is steeped in a pond, or some other receptacle of water, to promote the separation of the fibre from the stalk. This process is as follows: a number of the small bundles abovementioned are laid one upon another, so as to form a heap five or six seet wide, on each side of which three or sour stakes are previously set, to prevent its falling down. A quantity of cow-dung is then spread over the heap, about two or three inches in

^{*} Crotalaria juncea.

thickness; upon this a layer of straw of about a foot and half, and over the whole a quantity of earth sufficient to sink the heap till the upper part is five or six inches below the surface of the water. In two days and a half, or three days at farthest, the putrid sermentation is carried to a sufficient extent.

The Sana is then taken out, and the fibre stripped from the stalk in the following manner. A man standing up to his knees in the water; takes a sew of the stalks, and, having broken them about a foot from the lower end, holds them with the large ends from him, and strikes them on the surface of the water, till the broken pieces are separated, and fall off. Then turning them, he takes hold of the sibres which are freed from the broken pieces, and beats the small ends, in the same manner, on the water, till the sibre is entirely separated from the stalks; a sew strokes are sufficient, and by a sew more it is cleansed from any mucus, or fragments of stalks which may have adhered to it. It is then dried and packed up for the market.

The chief thing to be attended to in this process, is the proper regulation of the putrid fermentation; if this be not carried to a sufficient ent extent, the sibre will not separate, and if carried too far, the quality is injured. The most experienced natives account two days and a half a proper medium. The sermentation is doubtless quickened or retarded by the state of the weather, but the difference occasioned hereby is so small, that the Bengal sarmers entirely disregard it.

THE Crotalaria, cultivated in the neighbourhood of Calcutta, and probably that cultivated in all the fouthern parts of Bengal, is accounts

ed much inferior to that cultivated in the northern parts of the country. The natives attribute this to the difference of foil. This may have fome effect, but it is probable that the variety cultivated in the fouth, is inferior to that cultivated in the north; as, even there, the large variety is preferred to the smaller one.

Phaseolus Mungo is usually fown in small fields about the beginning of June, and generally produces a good crop; it will thrive only on high and good land. Phaseolus radiatus is sown in July and August, on land where another crop has failed, and, not unfrequently, on old sward, or on land which could not be regularly cultivated. The seed is scattered over the land, often without any ploughing at all, and at most the plough is only drawn over the surface so as to make a few slight scratches. This crop ripens in October. It is obvious that much produce is not to be expected from such a mode of culture. The crops are indeed light, but are often sufficient to pay the rent of the land. A more rational method of cultivation would doubtless be far more productive.

THE low and loamy foils, after having produced a crop of early rice, are usually fown with the feeds of some other plant, in October or November. The mode of culture for all the cold season crops is nearly alike. The natives seldom begin to sow till about the sull moon in October, supposing that the soil possesses a pernicious quality, which burns up the young plants, till the cold season is well set in. Indeed, before that time, the quantity of moisture in the soil is too great, and the heat of the season unfriendly to these productions; so that though the

plants will come up, they are yellow and fickly, and either foon periffi, or continue small, stunted, and unproductive.

Mustard feed is fown in great quantities at this feafon. Three kinds are usually cultivated; viz: Surshapa,* vulg. Sursha, Raya, † and Sheta Sursha. † The first is the most esteemed, though the other two kinds are as productive, and perhaps more so. The Sinapis dichotoma rises about two or three seet in height, slowers in the latter end of November, or the beginning of December, and is usually ripe in January. S. ramosa grows sometimes sive or six seet high. It slowers in the end of December, or in January, and ripens in February. S. glauca grows two or three feet high, and ripens in February. This kind, having a strong and disagreeable smell, is less valued than the other sorts. When the crops of Mustard are ripe, the plants are carefully pulled up by the hand, and carried to a place in the field, smoothed and prepared for the purpose, where it is soon after thrashed and winnowed.

FLAX, though abundantly cultivated in the central parts of Bengal, for its use in making oil, is but little cultivated in this district. The natives know nothing of the use of its sibre to make thread. The oilmen usually mix the linseed with a quantity of mustard seed, to promote the expression of the oil. This so injures its quality, that Indian linseed oil is unsit for painting, or the other useful purposes to which it is applied in Europe.

^{· ·} Sinapis dichotoma.

[†] S. ramofa,

[‡] S. glauca.

Linum ufitatiffmum.

Many parts of this district are very proper for the cultivation of wheat and barley, notwithstanding which, very little of either is sown. The kind of wheat sound in these parts is bad, the slour produced therefrom is of a very dark colour, and consequently finds no market among Europeans. The native merchants on this account make no advances for it, and this want of a market is the reason alleged why it is not cultivated to a greater extent. For the purpose of making a trial I sowed Patna wheat, on a large quantity of land, in the year 1798; the slour produced from which was of a very good quality.

Several kinds of pulse are sown at the commencement of the cold season, the principal of which are Kesari, * Mashuri, † and Bút. † The seeds of the first of these kinds are sometimes scattered among the stubble of the Buna rice, and produce a good crop without further trouble, but the most usual way is to sow it on land previously well ploughed and cleansed, in the same manner as for the other cold season crops.

Tobacco is cultivated to a confiderable extent on low and loamy land. The feeds are fown on a small plat or feed bed, soon after the conclusion of the rains, where they are shaded, and watered, if necessary, till they are large enough to be transplanted into the steld. The land for tobacco must be well ploughed, and manured, after which the young plants are transplanted in rows, much in the manner that cabbages are planted in England, and at the same distance. The your plants require continual attention, the ground between them must be

[.] Lathyrus fativa.

t Ervum lens.

[‡] Cicer arietinum,

repeatedly loofened, and the earth drawn to the roots, till they have acquired a sufficient growth: they are then cut and dried for use.

THE egg plant," and feveral species of capsicum, are planted at the fame time, and in exactly the fame manner, as tobacco. The fruit of the egg plant is much used all over India, as an article of food, as is the capficum to give a pungent tafte to several Indian dishes. I have not observed that these plants are planted in this district at any time except the commencement of the cold feafon, and there is reafon to Suppose that they would not succeed if they were; though in the fouthern parts of Bengal, they prosper very well when planted at the commencement of the rainy feafon. Several other plants are cultivated as articles of food, some to a greater and others to a less extent. The cucurbitaceous plants are often fown in the fields, and the advantage of cultivating them is confiderable. The forts most cultivated are cucumbers, of two forts, the one fown in April and yielding fruit through the rainy season, and the other sown from November to February, and yielding fruit till the rainy feafon fets in. Karaila,+ Terbuz, Dudh Kushi, Jhinga, Taroi, T Kankrol, ** Láu, ++ Kadduff and the Konhra, or Pumkin & The three last of these are fuffered to run over the houses, and sometimes on a bamboo stage,



[·] Solanum Melongena.

[†] Momordica carantia,

Cucumis pentangulus.

tt Cucurbita lagenaria.

t Cucurbita citrullus.

Q Cucumis acutangulus,

^{‡‡} Cucurbita alba.

Trichofanthes anguina.

^{**} Momordica mixta.

⁵⁵ Cucurbita pepo.

and produce fruit sufficient for the expenditure of the cultivator, befides furnishing a large quantity for the markets,

The sweet potatoe* is planted at different seasons in different parts of Bengal, but in this district it is planted at the beginning of October. The ground is previously ploughed to as great a depth as possible, and then cuttings, taken from a small spot reserved for that purpose, are planted; these cuttings soon take root, and afterwards require no surther care, till the roots are fit to be taken up, which begins to be the case at the end of December, and continues till May, during which time the produce is dug up and carried to market as it suits the convenience of the cultivator. Another variety, of a white colour, which has very little sweetness, and a small species of yam, the root of which is about the size of a goose's egg, are cultivated in the more northern parts of the district. The cuttings of the plants of the convolvolus, and the small roots of the yam, are planted in April or May, and the produce brought to market in October or November.

THREE varieties of the Arum esculentum, (Cachú of the Hindus,) are usually planted in March or April. The cultivation of these roots, occupies a considerable portion of the soil, and the produce is as important as potatoes to the people of England. The offsets from the root are planted in rows, about a soot and half or two seet as under, and, as the plant increases in size, are earthed up as potatoes are in Europe. The periodical rains being ended, the leaves die away; after

Convolvulus batatus.

[†] Dioscorea.

which, from November to March, the roots are taken up, and carried to market, as fuits the convenience of the cultivator. These roots abound with a farinaceous substance, or rather with a viscous, starchy substance, and are esteemed very nutritive. The Man Cachú, and the Ol, are cultivated in small spots. The root of the first of these is often two or three feet long, and nine inches or a foot in diameter. It is necessary to lay this root to dry for two months or more, otherwise it is too acrid to be eaten; after this it is very wholesome, though not very palatable. As all the sorts of Cachú will keep for almost any length of time, it might be worth attention as an article of provision for sea voyages.

In fhady fituations, where the foil is rich and loamy, ginger and turmeric flourish. The offsets are planted at the same time with, and the whole culture is exactly the same as that observed for the arum. The leaves die off, like those of arum, soon after the rains, and the roots are fit to be taken up in January. The turmeric is very deficient in colour, and the ginger less pungent, if taken up too soon. The farmers therefore let it remain in the ground till the leaves are entirely dried up. Ginger is usually sold green, and only a small proportion dried, for foreign market or home consumption. After the roots of the turmeric have been well cleansed and picked, they are boiled over a fire made with the decayed leaves of the plant, (the natives supposing such a fire to have a peculiar kind of virtue,) after which they are well dried in the sun, and reduced to powder by the Pedal, or by the

t Arum macrorhizon.

[·] A. Campanulatum.

wooden mortar and peftle. In this flate they are usually carried to market. The roots are fold likewise before they are pulverized.

On moderately high spots, where the soil is good, the sugar-cane is planted in February and March. The spot designed for sugar-canes is usually surrounded with a ditch, the earth dug from which is heaped up round the field, in the manner of a wall, and serves to desend it from cattle. After the spot has been well ploughed, or dug up with the Kodáli, cuttings of ripe canes, consisting of about three joints, are planted somewhat slanting, in rows, about two seet, or at most three seet distance, and about a foot as a sunder in the rows. The fields must be often watered and cleansed from weeds. When the canes are about sour feet high, they are tied in bunches, about three or sour stalks forming a bunch: this permits the air to circulate among them and facilitates their ripening. The canes, when ripe, are cut, and either carried to the mill or to the market.

The cultivation of the plantain is a profitable branch of husbandry, requiring but little labour, and making a certain return. Spots near to the habitation are chosen for this purpose, to guard against the depredations of thieves. The young plants or suckers are taken from old plantations, and planted at about six or eight seet distance, each way. They may be planted at any time of the year, but May or October is usually chosen. The root is all cut off previously to planting, except a small part with a few sibres. The ground is ploughe either before or after planting, as it suits the convenience of the farme, and a crop of some other plant is advantageously cultivated on it,

the first year. In the second year the trees produce fruit, and continue to do so for some years; each clump will produce about two bunches in a year. It is necessary to plant a new sield at the end of three or sour years; because, when the clumps become large, the fruit is small, and the bunches contain a smaller number of fruit.

THE Cytisus Cajan is frequently fowed round fields of sugar-canes, egg plant, and other things: this, while it makes a slight and well looking fence, is also a source of profit to the cultivator.

AT prefent the poverty, prejudices, and indolence of the natives firongly operate against improvements in agriculture. Could an adequate remedy be found for these evils, many other things might be cultivated with great advantage. Hemp would flourish in many spots; cotton, scarcely cultivated at all in the district, might be cultivated to a large extent; if proper methods were taken to introduce the best kinds, the culture of wheat and barley might occupy many thousands of Bighás, which now lie in an uncultivated state.* The culture of some species of Hibiscust would be profitable, and furnish one of the most durable sibres for cordage, and, perhaps for coarse cloths.

THE cultivation of timber has hitherto, I believe, been wholly neglected: feveral forts might be planted all over this district, and indeed all over Bengal, and would soon surnish a very large share of the tim-

^{*} I have not observed that any of the smaller grains, such as Paspalum, Holcus, &c. are cultivated in this district: they would undoubtedly prosper in many situations.

t. Particularly H. cannabinus, H. furattenfis, and H. ftricus.

ber used in the country. The Sisu,* the Andaman red-wood,† the Jaca-tree,‡ the Teak, the Mahogany, the Sattin-wood, I the Chakrasi,** the Tuna, † and the Sirisha,‡ should be principally chosen. The planting of these trees single, at the distance of a surlong from each other, would do no injury to the crops of corn, but would, by cooling the atmosphere, rather be advantageous. In many places, spots now unproductive, would be improved, by clumps or small plantations of timber, under which ginger and turmeric might be cultivated to great advantage.

In some situations Sál, || Pitsál, & Jaral, II and some other forts of less note would prosper.

INDEED the improvements that might be made in this country by the planting of timber, can scarcely be calculated. Teak, || that most useful wood, is at present brought from the Burman dominions, though it would grow in any part of Bengal, and perhaps in any part of Hindustan. It appears, from the annals of the National Museum of Natural History, that the French naturalists have begun to turn their attention to the culture of this valuable tree, as an object of national

[.] Dalbergia Siffoo.

[†] Pterocarpus Dalbergius.

Tectona grandis. Swietenia Mahogani.

^{**} Swietenia Chukraffa.

tt Cedrela tuna.

[‡] Artocarpus integrifolius.

[¶] Swietenia chloroxylon.

^{‡‡} Mimofa Secre

Il Shorea robufta.

The genus of this tree is not yet determined,

¹⁹ Lagerstræmia flos reginæ.

be attempted somewhere else. To England, the first commercial country in the world, its importance must be obvious, and the further encouragement* of the culture of it in this country, will eventually surnish a supply of excellent timber, for ship building and various other important purposes, and obviate all apprehensions of the failure of the market where it is purchased, or of the destruction of the forests which have hitherto supplied it.

Most of the Palms, though useless as timber, deserve the attention of the agriculturist. The Sago treet would grow in all the high parts, and the Date-tree, ‡ planted close, would greatly improve many spots now wholly unproductive. The juice of this tree is manufactured into sugar, in some parts of Bengal, and is highly valuable for that and other purposes. It is common to let a tree of this kind for two annas a year. Two hundred of these trees might be planted on a Bighá, which lets for a rupee and a half; this would be productive of a large income, after the first eight or ten years.

Few attempts have yet been made to improve orchards. The Mango, and other fruit trees, are often planted so close as to choke each other, and but little regard is paid by the planter to the quality of the fruit. Scarcely any attempt has been made to naturalize foreign fruits; even the Orange-tree is almost a stranger to several parts of Bengal, though

The cultivation of Teak has been encouraged by Government.

[†] Saguerus Rumphii.

[#] Phoenix Silvestris.

The laudable attempts made by feveral Europeans excepted, the improving of fruits, by grafting, or by raising improved varieties from feed; has scarcely been attempted. In short, the fruits of Hindustan are not far removed from a state of nature.

THE remedy for these evils is obvious to every one, and the application of it would fully reward any person who would engage heartily in it.

In this district several obstacles to agriculture present themselves to the farmer. Large numbers of wild buffaloes and hogs insest the fields, and make it necessary for the farmer to watch his crop, from the time it appears above ground, till the harvest is gathered in: as this watching is impracticable beyond a certain extent, is attended with much danger, and often inessectual, the cultivation carried on by an individual must be proportionably limited.

The inundations, which are occasioned by the sudden overslowing of the rivers, frequently destroy the crop through a large extent of country, or so much injure it, that by this alone, the laborious husbandman is often so reduced in his circumstances, as to be unable, or so discouraged as to be afraid, to carry on the cultivation of the soil with any degree of spirit. The beasts might be destroyed, or their ravages prevented, in various ways; but it is difficult to provide sufficiently against the effects of inundations.

PERHAPS the encouragement of cold season crops would be the best remedy for both: for the long grass being destroyed by the cultivation

of the low lands, the wild animals would find no shelter, and indeed no sustenance, when the crop was off, which might occasion them to desert the country, and the cold season crop, though often less valuable than a crop of rice, might prove a remuneration for the labours of the cultivator, and by some improvements might be brought to such a state as to become a source of considerable profit.

THOUGH these remarks relate chiefly to the district of Dinajpur, yet it is obvious that many of them will equally apply to the other parts of Bengal.

The improvement of live stock, and introduction of dairies, the fencing and manuring of land, the introduction of wheel carriages, and a number of improvements of a similar kind, have not been hinted at, because the present state of society seems to render them to a great degree impracticable. Yet the rapid progress of agricultural improvements in England, encourages the hope, that a gradual improvement may also be effected in Hindoostan.

REFERENCES TO THE FIGURES. PLATE I.

une & Dun

Fig. 1.—The I lough.

G

- a. The Lángala, or body of the plough,
- b. The Is', or beam.
- c. The Phála, or share.
- d. The share, fixed on the plough.
- c. The handle.

f. The Moot, or peg, to affift in holding the plough.

Fig. 2.—The Jooal, Beng. or Yoke. (Sons. Yuga.)

- a. The under edge, which rests on the neck of the bullock.
- b. b. The elevations on the upper part.
 - c. c. c. c. The pins, by which it is fastened to the neck of the ox.

Fig. 3.—The Mai, or harrow. (Sans. Los'thhedhana.)

Fig. 4.—The Jant, slung for raising water.

- a. The Jant,
- b. The end, stopped with a square board.
- c. c. c. The bamboo to which it is flung.
- d. The bamboo, loaded at one end, to affift in raifing the end b out of the water.
 - c. A man working it.
 - f. The refervoir, or channel, into which the water is thrown.

Fig. 5.—The Bharua, miles To and all the same

- a. Bank, or yoke.
- b. b. The Shikya, or string by which the weight is suspended.
- c. c. The receptacles, in which the earth or other substance is carried.

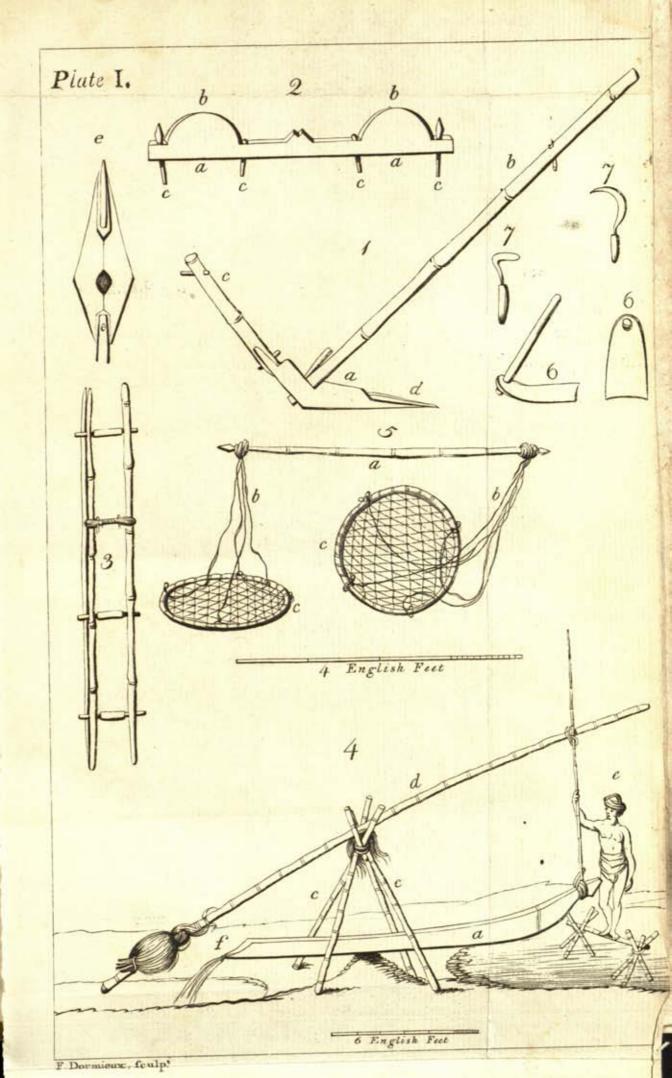
Fig. 6.—The Kodáli, or digging hoe.

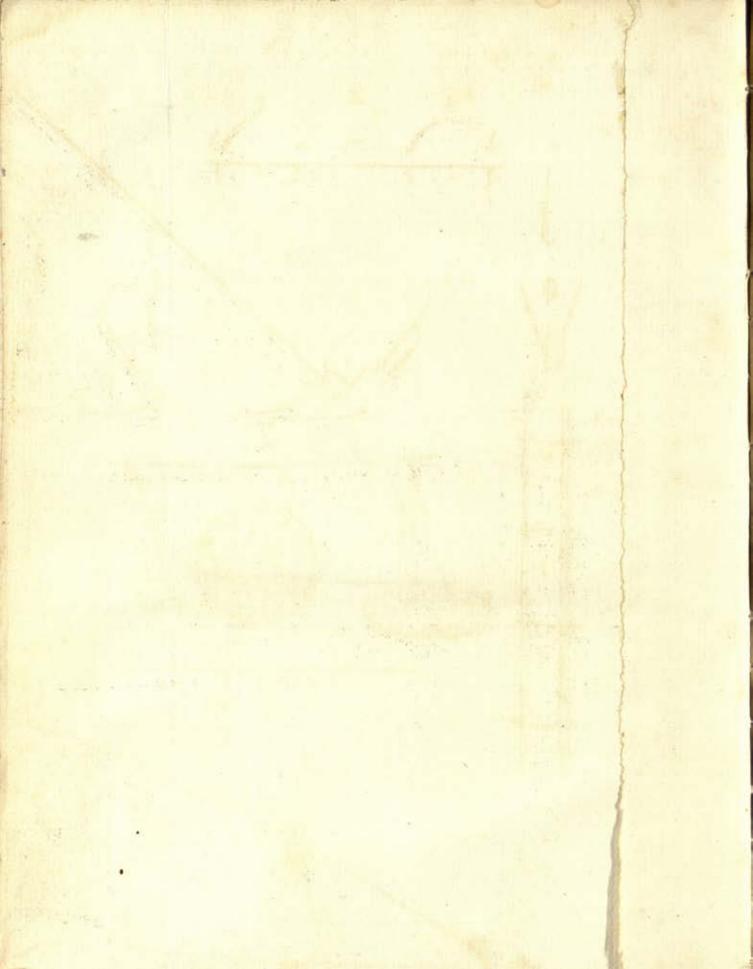
Fig. 7.—The Kastya, or sickle.

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The fairty lived on the playels.







Carcin and Dicting of the

An Essay on the Sagred Isles in the West, with other Essays connected with that Work.

BY CAPTAIN F. WILFORD.

.V YAZZE IV born, in order vo deli-ev

Origin and Decline of the CHRISTIAN RELIGION in INDIA.

I. IT appears, that long before Christ, a renovation of the universe was expected all over the world, with a Saviour, a King of Peace and justice. This expectation is frequently mentioned in the Purán'as: the Earth is often complaining that she is ready to fink back into Patala, under the accumulated load of the iniquities of mankind: the Gods also complain of the oppression of the Giants. Vishnu comforts the Earth his confort and the Gods, affuring them, that a Saviour would come, to redress their grievances; and put an end to the tyranny of the Daityas, or Demons. That, for this purpose, he would be incarnated in the house of a shepherd, and brought up among shepherds. The followers of Buddha unanimously declare, that his incarnation, in the womb of a virgin, was foretold several thousand years, though some say one thousand only, before it came to pass.*

A SHORT time before the birth of Christ, not only the Jews, but the Romans, on the authority of the Sibylline books, and the decision of the facred college of the Etrurian augurs, were all of opinion,

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^{*} See also As. Res. vol. vi. p. 267.

that this momentous event was at hand. This was equally the case in the east, and a miraculous star directed the holy men, who were living in anxious expectation, where to find this heavenly child. At that time the Emperor of India, uneasy at these prophecies, which, he conceived, portended his ruin, and the loss of his empire, fent emissaries to inquire, whether such a child was really born, in order to destroy him: and this happened exactly the 3101st year of the Cali yuga, which was the first year of the Christian Era. This traditionary account is known all over India: and is equally current among the learned and the ignorant. But the Hindus fancy, that these old prophecies were fulfilled in the person of CRISHNA. What induced the Brahmens, to adopt this idea, is not for obvious. It is possible, however, that they faw plainly, that if they admitted these prophecies to have been fulfilled about the time of CHRIST, Tome material alteration must, of course, have taken place in their religion. The Magi of scripture, who came from the east, were equally expecting this renovation; and the har ferved only to guide their steps. This expectation, of a renovation of the world, prevailed also among the Gothick tribes in the north; but after waiting patiently for some time, certain enterprising men fet theme felves up, for the promifed MANU, or new ADAM; and were acknowledged as fuch. According to their traditionary accounts, they were nettled, and puzzled with some strange reports from the east, about the appearance of some Esir, Asa, Gods, or godlike men; and CYLFE is supposed to have been sent to inquire into the truth of these reports. His embally is the ground work of the Edda, which concludes with these remarkable words, "The new Asa, then, took to themselves the

names of the ancient ones; and gave themselves to be the real Asa, or Gods." ODIN was one of them, and advancing towards the north, GYLFE furrendered his kingdom to him. In consequence of these notions of a change in this fublunary world, a new system of religion in Britain, was fet up in opposition to the old one, according to the ingenious Mr. CLELAND: and this, he thinks, must have happened fome time B. C. but, I think it happened later: for HENGIST and HORSA were in the tenth degree of lineal descent from this new ODIN; who, of course, was contemporay with TRENMOR, who was deified by FIN-GAL his great grandfon; who appointed him an Elysium, from which the fons of the feeble were excluded, and priests also, I believe. That FINGAL, and his followers, held in contempt the old religion, is obvious from the ancient Galic Poems. Probably the defeat of the druids in Anglesey, for fo we may call it in spite of their spells, and holy texts churned from their facred Vedas, accelerated their ruin, and that of their religion: this, with some obscure prophecies, foretelling, that a total change, in civil and religious matters, was going to take place, induced many clever and enterprising persons, to avail themfelves of all these circumstances; and to give out, either, that they were this expected divine being, or to deify their own ancestors. Fin-GAL succeeded most completely: for, till very lately, many of the Irish, among the poorer class, believed, that the fouls of the departed went into the Elysium of TRENMOR and MAC COWAL, according to the industrious inquirer J. Good, who lived above 200 years ago: and, if the Christian religion had not prevailed soon after, TRENMOR would have been confidered, in time, as the supreme

heing. In the same manner, the Emperor Augustus was of course consecrated a God, after his death; and, both before and after, temples were erected in his honor, and sacrifices offered to him. The courtiers of Antony, acting upon the same principles, declared, that he was Osiris redivious, born again, and that Cleopatra was Isis. Virgit adds, that the renovation of the world, so long foretold, was going to take place, and begin with the golden age as usual: then the Argonauts, in due time, with the Argo, would reappear: and that there would be another Typhis, a Trojan war again, in which Achilles would signalize himself.

THE Hindu traditions, concerning this wonderful child, are collected in a treatife called the Vicrama charitra, or history of Vicrama Ditya. This I have not been able to procure, though many learned Pandits have repeated to me, by heart, whole pages from them. Yet I was unwilling to make use of these traditions, till I sound them in the large extracts made by the ingenious and indefatigable Major C. Mackenzie of the Madras establishment, and by him communicated to the Asiatick Society.

When I mentioned the Sibylline verses, I by no means intended the spurious ones, which are deservedly rejected by the learned: but the genuine ones, such as they existed in the time of Virgil; whose testimony is unquestionable, and incontrovertible. Whether these prophecies were really written by inspired women, is not now the question: they were certainly current all over the west, and this is enough for my purpose. There were several of them, and the most ancient were from the east. There was a Persian, a Chaldean, an Egyptian, and also, according to Pausanias and Elian, a Iudaia, or Jewish Sibyl from

Palestine. Such women probably never existed: but the prophetical verses, that were attributed to them, were extracted from the sacred records of their respective countries. The sourch ecloque of Virgin is entirely on the subject of this long expected renovation of the world.

The last great age, foretold by facred rhymes,

In the original it is, foretold by the CUMCEAN SIBYL.

Renews its finished course; Saturnian times Roll round again, and mighty years, begun From their first orb, in radiant circles run, The base degenerate iron offspring, (or the Cali-yuga) ends, A golden progeny fof the Crita, or golden age) from heaven descends: O chaste Lucina, speed the mother's pains: And hafte the glorious birth; thy own APOLLO reigns! The lovely boy, with his auspicious face! The fon shall lead the life of gods, and be By gods and heroes feen, and gods and heroes fee. Another Typhis shall new seas explore, Another Argo land the chiefs upon the Iberian shore, Another HELEN other wars create, And great ACHILLES urge the Trojan fate, O of celestial feed! O foster son of Jove See, labouring nature calls thee to fustain The nodding frame of heaven, and earth, and main: See to their base restored, earth, seas and air.

THESE are the very words of VISHNU to the Earth, when complaining to him, and begging for redrefs.

It is obvious, that VIRGIL confidered the momentous events of the Trojan war, the expedition of JASON in the Argo, and the rape of Helen or Lacshmi, as the necessary concomitants of a renovation of the world. The Cali-yuga, according to VIRGIL, ended a little before

CHRIST, of whom he had no knowledge: and according to HESIOD, and the Jainas in India, the Cali-yuga began about 1000 years B. C. and lasted, of course, the same number of years, which were natural ones in the west, but are considered as divine years in India.

ABOUT 60 years before the birth of CHRIST, the capital of the Roman Empire was alarmed by prodigies, and also by ancient prophecies, announcing, that an emanation of the deity was to be born about that time, and that a renovation of the world was to take place. In the year of Rome 690 and 63 B. C. the Senate, having been convened on the ninth day before the calends of October, or the 23d of September, in order to prepare against imminent dangers threatening the Empire, the whole city was alarmed by new causes of anxiety. P. NIGID. FIGULUS, the intimate friend of CICERO, who was then conful, having heard C. Oc-TAVIUS apologifing to the Senate for his coming fo late, on account of his wife having been just brought to bed, exclaimed, you have then begot a lord and mafter unto us. This FIGULUS was in fuch estimation at Rome, that he was reckoned among the most learned men: and such was his superior knowledge of the mathematics, and other sciences grounded upon them, that he was believed to deal in the occult sciences. That exclamation of his threw so much more terror into the minds of the Conscript Fathers, as for a few months before, it was constantly reported, that nature was bringing forth a king unto the world, and it was faid, that the same was afferted in the Sibillyne verses. Besides, oracles to that purport were constantly brought in from the most distant parts of the world. On this account, and more particularly on account of a prodigy that had just happened at Rome, the Senate, terrified, issued a

decree, that no father, during the course of that year, should presume to list up from the ground, or bring up a new born male child. However, those among the Conscript Fathers, whose wives were with child, had the decree suppressed: and these prophecies and prodigies were afterwards applied to Augustus, who was born during the consulate of M. Tullius Cicero,* fixty-three years before Christ; but fifty-fix according to several writers in the east, such as the author of the Lebtarikh and others. Hence it is, that Nicolo de Conti, who was in Bengal, and other parts of India in the fifteenth century, infists that Vicramaditya was the same with Augustus, and that his period was reckoned from the birth of that Emperor, fisty-fix years B. C.

In the year 119 B. C. in the time of Martus, such diresul prodigies appeared, that the facred college of Hetruria, on being consulted, declared that the eighth revolution of the world was at an end: and that another, either for the better, or the worse, was going to take placet; and Juvenal, who lived in the first century, declares that he lived in this ninth revolution, which was then going on; for the Etruscans recknowledge of these revolutions, each of one thousand years according to some; but according to others, these twelve revolutions constituted what they called the great year.

Ir may be asked, what prophecies are to be found in the Puran'as concerning this Saviour and avenger. I observed before, that the Hindus

^{*} See Supplement to Tir. Liv. cii, Decad. c. 39.

[†] PLUTARCH in SYLLAM, p. 436.

I JUVENAL Satyr xiii. v. 28.

would have it, that these prophecies were fulfilled long before, in the person of Crishna. In this, they were wiser than the Jews, who, by infisting that the Messian is not yet come, have plunged themselves into inextricable difficulties, and have been forced, at last, to give up any further inquiry into the time of his appearance. In this manner, many of the Samaritans, in order to elude the prophecies concerning Christ, insist that they were sulfilled in theperson of Joshua, whose name is the same with Jesus, and who, according to the Hebrew text, was contemporary with Crishna; and they have also a book of the wars of Joshua with Scaubec,* which may be called their Maha-Bharati

When I faid, that the Hindus conceived, that the prophecies concerning a Saviour of the world, were fulfilled in the perfon of Crishna, I do by no means with to convey an idea, that he was Christ, from whom he is as diffined a character, and perfon, as Joshua; and whose name, with the general outline of his history, existed long before Christ. "Yet the prolix accounts of his life," to use the words of Sir W. Jones, "are filled with narratives of a most extraordinary kind, and most strangely variegated. This incarnate deity of Sanscrit romance, was not only cradled, but educated among shepherds; a tyrant, at the time of his birth, ordered all the male infants to be slain. He performed amazing, but ridiculous miracles, and saved multitudes, partly by his miraculous powers, and partly by his arms: and raised the dead, by defeending for that purpose into the infernal regions. He was the meekest, and best tempered of beings, washed the feet of the Bráhmens, and

Reland de Samarit, p. 15 &c.

preached, indeed sublimely, but always in their savour. He was pure and chaste in reality, but exhibited every appearance of libertinism; lastly, he was benevolent and tender, and yet somented and conducted a terrible war." The Yadus, his own tribe, and nation, were doomed to destruction for their sins, like the descendants of Yahoda or Yuda, which is the true pronunciation of Juda. They all fell, in general, by mutual wounds, a few excepted, who lead through Jambu-dwipa a miserable, and wretched life. There are some to be found in Gurjarat: but they are represented to me as poor and wretched. "This motley story must induce an opinion," that the spurious gospels, which abounded in the first ages of christianity, had been brought to India, and the wildest parts of them ingrasted upon the old sable of Crishna." Several learned missionaries are also of that opinion, though they carry the comparison too far. The real name of Crishna was Caneya, and he was surnamed Crishna, or the black, on account of his complexion.

The Hindus, having once fixed the accomplishment of these prophecies to a period greatly anterior to the Christian Era, every thing in their books was either framed, or new modelled accordingly; and particularly in the Puranas, every one of which is greatly posterior to our era; though many legends, and the materials in general, certainly existed before, in some other shape. Yet, as inconsistency and contradiction are the concomitants of falshood and deceit, it may be supposed, that some circumstances, and particulars, tending to remove the veil they have attempted to throw over these events, may have escaped them. This

^{*} As. Res. vol. 1 P. 2 3.

is very probable; but as I never had the most distant idea of ever inveftigating this subject, till very lately, I may probably have overlooked many passages of this nature; and I recollect now only two material ones, which I mentioned before. These prophecies, in the Purawas, concerning this Saviour, declare, that he was to appear in the latter end of the third, and in the beginning of the fourth age: which can, by no means, be reconciled to the Christian Era, according to their mode of reckoning. The two passages, alluded to, are to be found in the Padma and Gan'esaburan'as. In the first, BALT, an antediluvian, and in the fifth generation from the creation, is introduced requesting the God of Gods, or VISHNU, to allow him to die by his hand, that he might go into his paradife in the White Island. VISHNU told him, it was a favor not eafily obtained; that he would, however, grant his request: but, fays VISH-NU, you cannot come into my paradife now; but you must wait, till I become incarnate in the shape of a boar, in order to make the world undergo a total renovation, to establish, and secure it upon a most firm and permanent footing: and you must wait a whole Yuga, till this takes place, and then you will accompany me into my paradife. A whole Yuga, or Maha-yuga confifts of 4,320,000 divine, or more probably 4,320 natural years.* These, reckoned from the fifth antediluvian generation, will fall in, very nearly, with the beginning of the Christian Era, according to the Septuagint, and Josephus's computation. As to the number

^{*} These are a component part of the great year, or period of 12,000 years, used both in the east, and in the west, and also in Persia. In India they say that these are divine years, but is Etruria and Persia, they insisted, that these were only natural years.

and, as these 5,000 years are not said to be divine ones, we have a right to suppose, that they were meant originally for natural years. Ganesa, who is identified with Vishnu, and has also an inferior paradise in the White Island, and another in the Euxine or Ieshu Sea, thus says to a King of Casi or Benares, an antediluvian, and who, like Ball, wished much to be admitted into his elysium: "you cannot now enter my paradise in the White Island; you must wait 5000 years," when, it seems, it was to be opened. "But in the mean time, you may reside in my other paradise in the Euxine Sea." In the same manner Achilles, with Castor and Pollux, and I believe Cadmus, Peleus, &c. after residing a long time in the White Island in the Icshu Sea, were ultimately translated into the original White Island in the White Sea.

THE White Island in the Euxine or Icshu Sea, has much affinity with the Limbus Patrum or paradife of departed ancestors, who waited there for the coming of Christ, who was to open the celestial, and real paradife, for their reception.

Divines in India declare, that the furest proof of the divine mission of an Avatára is his coming being foretold: that prophecies concerning a Saviour are often repeated in them, some very plain, and others rather obscure: that they are, in short, one of the fundamental supports of their religion and creed. That CRISHNA is considered as the first, in dignity and principal incarnation; and that the others are greatly inferior to this, and merely introduced to bring on the grand system of regeneration. In his time, the divine oracles were committed to writing, with

a more complete and perfect fystem of moral duties, and religious worship: and a race of Brahmens more pure, more enlightened, was introduced into India. Crishna is the last Avatára, or manifestation of the deity, but one; which, according to their facred books and ours, will appear
a little before the general dissolution of the world.

Bur let us return to the manifestation of VISHNU in the shape of a Boar, mentioned in the former passage. This manifestation is acknowledged to be that of the white Boar: for according to the Tapi-c'hand'a, a section of the Scanda-puran'a, the Calpa of the Boar confists of four inferior ones, denominated from four manifestations of the great Boar. The first subordinate Calpa is that of the Curma-Varáha, or Tortoiseboar, this is the Curma-Avatára: the second was that of Adi-Varaha; called Adi-natha also, particularly by the Jainas: this is the Varaha Avatara: the third is, that of Varaha, with the title of CRISHNA: and the fourth, and present Calpa, is that of the White Boar, and which is very little noticed in the Puranus. In the Prabhasa-c'hand'a, a fection of the Scanda-purána also, these four Calpas have different names; and to them three more are added, making in all feven Calpas: and we are now in the feventh. These are the Calpas of VISHNU, under the feven different denominations of SRÍYA-VRATTA, VAMANA contemporary with BALI, VAJRANGA, CAMALA-PRABHU (CAMULUS DEUS), SWAHARTA, PURUSHOTTAMA, and the feventh, DAITYA-SUDANA. In the fourth Calpa of CAMALA'-PRABHU, 'and which is called also the Calpa of VARA'HA,' fays the author, was born Icshwa'cu the fon of NOAH, in the Treta or fecond age: and the four last Calpas answer to the four Calpas of the Boar, the last of which is that of DAITYA

SUDANA, thus called from VISHNU completely overthrowing the empire of the Daityas or Demons. These four Calpas are obviously to be reckoned from the flood. The Calpa of Purushottama, answers to that of Crishna; whose birth was followed by a general massacre of all the male children, through the whole country, by Cansa, in order to destroy him. But let us return to this wonderful child, who was to manifest himself to the world, when 3100 years of the Cali-yuga were elapsed, that is to say in the 3101, answering to the first year of the Christian Era, according to the Sunairicá-c'hand'a, and the Vicrama-charitra. According to the same respectable authority, the purpose of his mission, was to remove from the world wretchedness and misery: and his name was to be Saca, or the mighty and glorious King.

SA'LIVA'HANA was the son of a Tacshaca, or carpenter; and was born, and brought up in the house of a potmaker. God is called Deva-VA-TASHT'A or God the artist or creator, in Sanscrit; and also Deva-TASHT'A, from which is derived Deo-TAT or Teutat in the west, called Twasht'A or Tuisto by the German tribes. He produced Mannus, man, the first Manu, who had three sons. In Greece, according to Pindar, God the father of mankind, and creator of the world, was called xatist Austote zous, the father and best artist. This carpenter, the father of Sa'Liva'hana was not a mere mortal, he was the chief of the Tacshacas, a serpentine tribe, samous in the Purán'as. There, they are declared to be the most expert artists, and mechanics, in the world: and they are by no means confined to a few trades: but their skill emberede retinue in the same shape, came, in his way to the plains of Utonesses.

tara-Curu or Siberia, to worship at Prabhasa in Gurjarat, they planned, and executed a road for him, through the N. W.* quarter of India, which is said still to exist. The Tacshacas, or Tucshas, have, as usual, two countenances, that of serpents, and a human one, which they assume at pleasure.

THE chief of them is obviously the same with the serpent Acatho Demon, the Demi-urgos, Opisex, and artist of the Egyptians, Greeks, Gnostics, Basilidians, &c. These sectaries afferted, that the serpent was the father, and author of all arts, and sciences; and this serpent, they said, was the Christ, who was thus the son of a carpenter, and artist; and at the same time an incarnation of the great serpent, exactly like 'Sa'liva'hana, the 'Saca, or mighty and glorious King. 'Sa'liva'hana was the son, or rather an incarnation, of the great serpent: and his mother was also of that tribe, and incarnate in the house of a pot-maker. She conceived at the age of one year and half, the great serpent gently gliding over her, whilst she was assessed in her cradle.

The herely of the Ophites spread widely at a very early period: they extolled the serpent, as the author of the science of good and evil. Such was, they said, the majesty and the power of the brass serpent, exposed upon a stake in the tdesert, that whatever man looked up to him was immediately cured. In the same manner, that the serpent had been exalted upon a stake in the desert, for the good of the people, so it was necessary that Christ should be exalted also, upon a stake or

^{*} Cumáricá-c'handa, p. 155.

erofs, for the good of mankind, and in a scriptural sense this serpent was the type of the Saviour of the world.

The pot-maker used to make figures of clay of all forts, to amuse his grandson; who soon learned to imitate them; but he endued them with life. His mother carried him one day to a place sull of serpents, telling him, "go and play with them; they are your relations." The child went and played with them; without fear, and without receiving the least injury. These two last particulars are never omitted by the narrators.

ABOUT that time VICRAMA'DITYA, the Emperor of India, was made very uneasy, by general rumors, that the old prophecies were accomplished in the person of a child born of a virgin, and who would conquer India, and all the world. He sent emissaries every where to inquire into the truth of this extraordinary event, and find out this heaven-born child. They foon returned, and informed him, that it was but too true, and that the child was then in his fifth year. VICRAMA-DITYA immediately raised a large army in order to destroy the child, and his adherents, in case he should have any. He advanced with all possible speed, and found the child surrounded with innumerable figures of foldiers, horses, and elephants. These the child endued with life, and attacked VICRAMA'DITYA; who was defeated, and left on the field of battle, mortally wounded by the hand of young 'Sa'LIVA'-HANA.* The dying monarch only begged of his conqueror, that he would allow his own period to be equally current all over India with his. This the child granted, and then cut off his head, which he flung Into the middle of the city of Ujjayini; though at an immense distance.

^{*} See Afiat. Refearch. Vol. IX, p. 118, 120.

In the mean time Vicrama'ditya's army fell back toward Ujayini, purfuaded by Saliva'hana's forces, and in their way croffed the Narmadá. There, the army of Saliva'hana, confishing of soldiers of mere clay, was suddenly dissolved, and disappeared in the waters of the river. After this, we hear no more of Saliva'hana, except that he disappeared in the 79th year of the Christian Era, which is the first of his period. His name is not even mentioned in the lists, either of the Emperors of India, or of the Kings of Ujain. Immediately after the death of Vicrama'ditya, his wife was delivered of a son, whom they wanted to crown Emperor of India, in the same manner as if Sa'liva'hana had never existed: but being a posshumous child, he could not succeed to the empire; he was, however, perfectly eligible to the throne of the kingdom of Malava; and was of course immediately crowned at Ujain.

This took place, according to the Cumarica-chanda, in the first year of the Christian Era, when Sallvahana was in his fifth year; and it is remarkable, that our Saviour was equally in his fifth year at that time: The principal circumstances of this legend are taken from the Apocryphal Gospel of the infancy of Jesus, written in Greek in the third century; of which, an Arabic translation, made at a very early period, is still extant. Henry Syke has given a translation of it in Latin, with some fragments still remaining of the Greek original. In these fragments it is declared, that the infant Jesus, when five years of age, amused himself with making sigures of clay, which he endued with life. This idle story is mentioned also in the Korán, and is well known to Muslemans. This remarkable coincidence of

shistorical facts, legendary tales, and also of times, in my humble opinion, cannot be merely accidental.

THOSE, who acknowledge, that there are four VICRAMAS, always confider SA'LIVAHANA as one of them, and affert that he had of course a famous bard at his court called CALIDA'SA: Thus, when called VICRAMA'DITYA, he always appears alone as king of Pratish'tana, and as fuch he is represented in the appendix to the Agni-purán'a. This is the famous King of Pratishtana, with the title of 'TRI-VICRA-MA, or with the triple energy, as we have feen before: but his real name was VI-SAMA-SILA, or fimply SAMA-SILA. As Pratishtana is acknowledged to belong exclusively to SALIVAHANA, as Ujjayini does to VICRAMA DITYA, whatever King, called VICRAMA, OT VICRAL MA'DITYA, is represented as sovereign of Pratishtana, the same is SA'LIVA'HANA: and, when we find a VICRAMADITYA faid to have lived or reigned eighty-four years, him we must conclude to be 'SALI-VA'HANA, according to the learned Pandits, and astronomers, who gave me this information. this is the opinion of the BALLYARSAS in

THERE was a King at that time called Vicramamitra, the seventeenth from Chandragupta, according to the Bhágavat, Brahmán'da, Váyu and Vishnu-Puran'as;* and Vicramamitra or Vicramitra, as it is erroneously spelt, is synonymous with Vicrama'ditya or Vi-Cram'arca; and that Vicramamitra was intended for Vicrama'ditya, by the compilers of the Puran'as, admits of no doubt, for they say, that his father was Ghosha-raja, who was the same with Gand-Harupa, as we have seen before.

M. S. T. L. LOIL STADIES, S. S. S. S. S. S. S.

^{*} Sections on Futurity.

SALIVAHANA is confidered under three different points of view, according to the three different objects and purposes of his mission; and accordingly he is said to be either an incarnation of BRAHMA, of SIVA, or of VISHNU. He is sometimes considered as conjointly possessing these three powers, and he is then said to be TRI-VICRAMA.

WHEN the object of his mission is declared to be to destroy the kingdom, and power, of the Daityas or demons, he is then said to be an incarnation of 'Siva; as in the legends of Sama-'Sila King of Pratish'tana:

In consequence of this destruction, a regeneration takes place, as attested in the legends of the good Mandavyeh called Sulastha, or he who was crucified. Salivahana is then said to be an incarnation of Brahma: and this is the general opinion of the inhabitants of the Dekhin, according to A. Roger, and others.

But, when confidered independently of these two energies, meek and benevolent, doing good to all mankind, he is then VISHNU, and this is the opinion of the Salivansas in the provinces of Benares and Oude.

THUS we see, that 'SALIVAHANA goes through the TRIMURTTI; and when these three energies are considered as united in him, he is then VI-SAMA-'SILA-TRI-VICRAMA King of Pratish'tána, called also 'Saileyad'hára, or simply 'Saileyam, in a derivative form.

PRATISH'TA'NA is the usual Sanscrit expression for any confecrated place or spot, and it implies here, the holy and confecrated city, and is synonymous with the Bet-al-Kaddes, and Bet-al-Mokaddes of the Muslemans.

Salleya-D'HARA another name for it, is mentioned in the beginning of the Jyotirvidábharana an astronomical treatise, in which the author, giving an account of the fix 'Sacas, says that 'Sallyahana would appear at 'Saileya-d'hárá, or the city simmly seated upon a rock, which compound alludes to the city of Sien, whose soundations are upon the holy hills, "the city of our God, even upon his holy hill." Saileyam would be a very appropriate name, for it is also, in a derivative form from 'Saila,' and is really the same with 'Saileya-dhárá: and the whole is not improbably borrowed from the Arabic Dár-al-Sálam, or Dar-es-Sálem, the house of peace, and the name of the celestial Jerusalem, in allusion to the Hebrew name of the terrestrial one. The Sanserit names of this city of the King of Saileyam, or 'Sálem imply its being a most holy place, and consecrated apart, and that it is firmly seated upon a stony hill.

I MENTIONED, in the preceding essay, that Salivahana was also called Samudra-Pa'la, that is to say, softered by, or the son of, the ocean. This implies, that either he; or his disciples, came by sea; and this notion has a strong resemblance with a passage from the second book of Esdras, in which Christ is represented, as ascending from the sea, firmly seated upon a rack. This christian romance is of great antiquity, for it is mentioned by Irenæus, Clemens of Alexandria and Tertuluian, who considered it as a book of some antiquity, and almost canonical.

All these sacred, and most expressive epithets, the Hindus have ap-

Godáverí: but with what propriety, will appear hereafter. Be this as it may, whether in India or out of it, there at Saileyam, SALIVA HANA was to be born, of a virgin one year and half old: his father was to be the great Taeshaca or carpenter, and himself was to live in the humble cottage of a pot-maker. This legend is fomewhat differently told by others, as we have feen in our account of VICRAMABITYA. His mother was a married woman; but her husband, a Brahmen, died, whilst the was still very young. She conceived by the great Tacshaca, carpenter or artist, and when her pregnancy became obvious, her two brothers, ashamed of her seemingly unwarrantable behaviour, left Pratish'tána, and the unfortunate young woman, thus unprotected, found an afylum in the humble cottage of a pot-maker: and, in the VICRA-MA-CHARITRA, fhe is faid to be his daughter; whilst according to another legend, SIVA was incarnated in the womb of the wife of King SURA-MAHENDRA DITYA-BHU'FPATI, and there was born, under the name of SAMA-SILA-TRI-VICRAMA, or with the triple energy.

It is declared in the Vicrama-charitra, that the birth of this divine child, from a virgin, had been foretold one thousand years before it happened, nay some say two thousand. That a Saviour was expected with a regeneration of the universe, all over the more civilised parts of the world, in consequence of certain old prophecies, cannot be denied, at least in my humble opinion. It was firmly believed in the west: it was so in the east; and in the intermediate countries among the Hebrews, it was a fundamental tenet of their religion. Whether this notion was borrowed from the Jews or not, is immaterial to the present subject. It is by no means necessary to have recourse to

I am rather inclined to think, that this was not the case.

THE time of his birth is thus afcertained from the Cumarica-chan-'da, a section of the Scanda-purana, in which we read, Tatah trishu sahasréshu s'até chápyadhicéshu cha; 'SACA námá bhavishyas'cha yótidáridra haraca. "When three thousand, and one hundred year's of the Cali-yuga are elapfed, then 'SACA will appear and remove wretchedness and misery from the world." But it is necessary to observe here, that this is the first year of his reign, and that it has nothing to do with the first of his era. In the same manner, the author of that section fays, that the first year of VICRAMA DITYA's reign answered to the 3021 of the Cali-yuga, which date is equally unconnected with the first year of his era. In the appendix to the Agni-purana, we find that 'SA'LIVA'HANA began his reign 312 years after the death of CHANACYA, and CHANDRAGUPTA, which places it also in the first year of our era. It is remarkable however, that in the appendix to the Agni puran'a, and the copy from it in the Ayin-Acberi, the years are computed, or reckoned, from the first of 'SALIVA HANA's reign, answering to the first of CHRIST, but not from the first of the former's era.

SALIVAHANA died in the year of our era 79, and he lived eightyfour years. According to the Vicrama-Charitra, he was in the fifth year of his age, when he manifested himself to the world, and de-

Paragraph 42.

feated Vicrama Ditya. This places his manifestation in the first of the Christian Era, when Christ was also in his fifth year and in the latter end of it, for he was really born four years before the beginning of our era.

This places, also, the accomplishment of the old prophecies, Vierama'ditya's inquiries after this divine child, born of a virgin, exactly in the first year of our era. For, a thousand years before that event, the goddess Cali had foretold him, that he would reign, or rather his posterity, according to several learned commentators in the Dekhin, as mentioned by Major Mackenzie, till a divine child, born of a virgin, should put an end, both to his life and kingdom, or to his dynasty, nearly in the words of Jacob* foretelling to Judah; that the sceptre should not depart from him, on his Dynasty, until Shildhe came, 'Saliva'hana or King 'Sa'la.

As to his character, it is declared in the Cumárica c'han'da, as we have seen before, that he would come for the purpose of removing, wretchedness, and misery, from the world.

In the appendix to the Agni-purana, it is declared, that in the holy and confecrated city of Pratishtana, firmly feated upon a rock, called Saileya-a'hara or Saileyam, through the mercy of Siva, would appear Sa'liva'hana, great and mighty, the spirit of righteousness and justice, whose words would be truth itself, free from spite and envy, and whose empire would extend all over the world (or in other words, that the

[.] Genesis, chap. 49. v. 10.

people would be gathered unto him) the conveyor of fouls to places of eternal blifs. On account of this benevolent disposition, he is compared in the Vansávali, to Dhananjaya or Arjjuna, whose character is so well delineated in the inscription on a pillar at Buddál. He did not exult over the ignorant and ill favoured: he neither vainly accepted adulation, nor uttered honey words, and was the wonder of all good men. His wonderful equanimity on all occasions, and with regard to every one, of whatever rank in life, and whatever might be their natural faculties, and mental dispositions, are implied by the epithet of VI-Sama-Sila bestowed upon him.

His conception was miraculous, and in the womb of a virgin: he was the fon of the great artift, and the virtue of his mother was at first suspected: but choirs of angels came down to worship her. His birth was equally wonderful: choirs of angels with the celestial minstrelfy attended on the occasion, showers of slowers fell from on high. The King of the country, hearing of these prodigies, was alarmed and sought in vain to destroy him. He is made absolute master of the three worlds, heaven, earth and hell: good and bad spirits acknowledged him for their lord and master. He used to play with snakes, and tread upon the adder, without receiving the least injury from them: he soon surpassed his teachers; and, when sive years of age, he stood before a most respectable assembly of the dostors of the land, and explained several difficult cases, to their admiration, and utmost associations.

In the copies of the Vansavali, current through the western parts of India, he is conflantly called SAMUDRA-PA'LA; because either he, or fome of his disciples, came by sea; and he is of course the same with the Michhavatara, or incarnation of the deity among foreign tribes, mentioned in feveral astronomical tracts; and he is mentioned, in that character, in the section erroneously attributed to the Bhavishya. There he is declared to be RUMADE'S A'DHIPATI-SACE'S WARA, the lord and master of the empire of Rome; and the author of the facred period current through that vast empire; and which, according to the appendix to the Agni-purana, began to prevail over that of VICRAMA DITYA in the year 676 of our era. We have feen before, that he was born for the purpose of removing misery from the world, and to check the power of the demons; and, at the earnest intreaties of the subaltern deities on earth, and all good men, who were groaning under their tyranny, Siva comforted them, and affured them, that after a certain time, he would be incarnated in the character of VI-SAMA-SILA, with the title of TRI-VICRAMA, or with the triple energy:

The occasion of his being born, is declared also in the Vrihat-cat'há. The gods, being vexed by the wicked, went to Maha'-de'va, and said, "you and Vishnu, have destroyed the Asuras or Demons, but they are born again as Mlech'has, who constantly vex us and the Bráhmens. They will not allow sacrifices to be performed, but destroy the implements and holy utensils: they even carry away the daughters of the Munis." Maha'-de'va promised relief, and caused one of his forms, or emanations, called Ma'Lyava'na, to be incarpated, saying to him, "go and destroy the wicked; all the world will submit to thy power, as

well as good and wicked spirits." Then MAHA'DE'VA appeared to the father, informing him, that his wife would conceive, and the fruit of her womb be an incarnation of the deity: and he directed that his name should be Vicrama. When his mother had conceived, she became resplendent like the morning sun; and this resplendence answers to the Núr of the Muslemans, from which Issa proceeded. Immediately all the heavenly spirits came down to bow to her, and and worship her. When the child was born, the celestial music was heard, and a shower of slowers took place. The high priest, who was childless, obtained also a son, as well as the prime minister.

In the legends relating to 'SA'LIVA'HANA, it is in general afferted, that his mother being found with child, her character suffered so much, that her two brothers, through shame, left their native country.

In the present legend, Sa'LIVA'HANA, under the name of VI-Sa-MA-SILA with the triple energy, is represented as the son of a King, and as residing at Pratisht'ana, the consecrated city, or Saileyam. We are then informed, that young VI-SAMA-SILA made a surprising progress in learning, and soon surpassed his teachers. His father then resigned the kingdom to him, and SAMA-SILA became king of heaven, earth and hell; all spirits, good and bad, obeyed his orders; his resplendence was like that of the sun, and his same reached the White Island in the White Sea. The scene is then transferred to Ujjain, where he appears like Vicrama'Ditya: then sollows a minute account of his wars; but even then, there is no mention made of his wars with

'SA'LIVA'HANA, for a very obvious reason, though in the latter part the story is somewhat misrepresented.

LET us now consider Sama-Sila or Sa'la-va'hana, an incarnation of the great Tacshaca, in the humble cottage of a pot-maker in the skirts of Saileyam, or the consecrated city, as related above.*

THOUGH without teachers in that humble station, he surpassed all the learned in knowledge and wisdom; and I have already mentioned the samous will, which puzzled all the princes and learned men of the country, till a solution of the mystery was given by Sa'Liva'hana, who was then in the sifth year of his age.+

There is a curious account of 'Sa'Liva'hana, and of his crucifixion, in the Raja Tarangin'i, or history of Cas'mir. There we read, that 145 years after the accession of Vicrama'ditya to the throne, there appeared King 'Aryya, who was before prime minister of King Jaya-Indra, and whose name signifies the lord of victory, or of victorious hosts. It was decreed, that he should be wretched, and persecuted all his life time, and ultimately that he should die upon a cross; that he would be brought to life again, through the assistance of a Phan'i-Canya, or damsel of the Serpentine tribe; and then would become a great and powerful monarch. The King, having been circumvented by his enemies, threw into a loathsome dungeon Sandhi-Mati, for such was the name of his prime minister. But his enemies were not satisfied, and

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[†] As. Res. vol. ix. p. 128.

they informed the King, that SARASVATI, divine wisdom, or collectively those endued with divine knowledge, had declared, that he would be a King. JAYA-INDRA, called CHANDRA in the Ayin-Acberi, ordered him immediately to be crucified. There he remained, till his flesh dropped off, or was torn off by wild beafts. A certain holy man happened to pass by, and reading his destiny in the Brahmanda, or in his scull, immediately resolved to bring him to life again. For this purpose he performed the pujá, and after the usual ceremonies and invocations, he rung the bell, and was furrounded by a fiery meteor, which announced the presence of the Yoginis, or forms of Devi. Then, arming himfelf with a fcimitar, as usual on such appearances, he went to the forest, where the prime minister hung upon the cross. He was immediately furrounded by Yoginis, one of whom, the Phani-canya I mentioned before, arranged the bones together, and SANDHI-MATI stood upon his legs. The King, hearing of this, went to the forest, when all the Yoginis disappeared; this resurrection of SANDHI-MATI took place in Muni-puri, or the city of holy contemplators. He then afcended the throne, and, on account of his transcendent virtues, was called ARYYA-RA'JA, or the good King. THY AYTH AREA V Malla

The author gives us then an account of his excellencies, and of his worth; and informs us that he was a fervant and fayourite of MAHA'-DE'VA. The ways of the supreme being, says he, are wonderful, and truly pass all understanding and belief; yet there are similar instances recorded of old, such as in the case of Faricshita &c.* The differ-

See Raja Tarangini, and the extract from it in the Ayin Acheri, history of the Kings of Cashmir.

MAYA, the chief engineer of the Daityas, and the son of Twashta, made tapasya in honor of the sun, in order to obtain astronomical knowledge; the sun appeared to him, and said "I know the rectitude of thy heart, and I am much pleased with thy tapasya. I shall therefore impart unto thee the dostrine of Time, and of the revolutions of the planets. But as no body can bear my refulgence, and as it is not in my power to stop my course, for a single moment (for this reason go back to thy own puri, town, or place of abode, and there I shall impart unto thee knowledge, in the town of Romaga, where I shall become the MLE'CH'HA'VATA'RA, through the curse of BRAHMA'.) This form of mine, here present, will teach thee every thing": then the sun, having directed this new form to teach him, disappeared, and MAYA bowed himself to the ground before this emanation,

The sloca between the two brackets is not found in general in the copies of the Súrya-siddhánta; yet without it there feems to be something wanting: but whether an interpolation or not, its purport is established in the following astronomical treatises. In the beginning of the Siddhánta-Rája, the author says, from history (Itihása) I know, that Bha'scara-Su'rea became a Rómaca, through the curse of Puru'hu'ta and Viranchi. He became a Yavana in Rómaca, pattana, and in the garb and countenance of a Rómaca, he composed a most complete treatise on astronomy, who have at the parameter of a Rómaca, he composed a most complete treatise on astronomy, who have at the parameter of a Rómaca.

In the beginning of the Súryárun'a-samváda, the sun is introduced, saying, "I gave the Rómsca Sidd'hanta to Rómaca, whilst siving among the Yavanas, in consequence of Brahma's curse. Rómaca taught it

Rómaca-nagaré in the town of Rome, for he dwelt among the Mléch'has in consequence of that curse; Rómaca-purí is the town of Rome in the west. "Then," says Arun'a, "how came you to assume the countenance of a Mléch'ha in the west, in a land of unrighteousness." "Brahma' cursed me," answered the sun, "and said be thou born in the west, in Rómaca-pura, and of the Mléch'has, who are ignorant of the Védas, of the Yejna, or of the proper mode of performing sacrifices, Carma, religious rites and discipline; who have rejected sarvadharma, all religious duties, are dush'ta, inclined to evil, nastica, heretics; and who (the Romans) are a Yavana tribe, guilty of every fort of unoleanliness. Thus, in that shape, I taught them astronomy."

THIS MEE'CH'HA'VATA'RA, or superior incarnation* of the deity among foreign tribes, Ruma-Be's'A-Pati the lord of the country or empire of Roum, or Rome, (because his doctrine, institutes, and laws prevail through it;) Rómaca-nagaré, said to reside in Rome its metropolis, (because he is revered and worshipped there with unusual magnificence;) 'Saces'wara the lord of a sacred period, (or as I think it should be understood, after whom it is denominated,) is obviously Jesus Christ; at least it appears so to me. From his being a 'Saces'wara, the Hindus suppose him also to be a great astronomer. In the Súrya-Sidhhánta, he is repeatedly called 'Srí-Su'-Rya'nsa, or the blessed Su'rya'nsa; he is also styled Rómaca-Ava-Ta'ra, or simply Rómaca. In consequence of this, 'Sa'liva'hana

[·] Inferior incarnations are denominated Avantara.



is confidered all over India as a great astronomer, or as a prince remarkably fond of astronomy:*

VARIOUS are the opinions about SA'LIVA'HANA: in general it is believed, that he did not die, but was translated to heaven, being a SA-CA; after having retired, for many years, into the defert, to give himfelf up to heavenly contemplation.

I HAVE mentioned, that the Hindus represented SA'LIVA'HANA in his fifth year, exactly like our Saviour in the first year of the Christian Era: it was not in consequence of deep chronological investigations, that they seemingly attempted to correct the mistake of Dionysius Exiguus, or the little; but because it was so in the Apocryphal Gospel of the infancy of Jesus, or rather because it was the general opinion in the east, that Jesus manifested himself to the world at that age. 'SA'LIVA'HANA did not marry, nor had he any offspring: for even in India, he is looked upon as a mysterious, and supernatural being, and called an Utpáta, or prodigy.

I HAVE thus arranged, and brought together, all the information I could procure, concerning Sa'Liva'Hana, under that name, or any of his well known titles, and as King of Pratish'tana: for 'Sa'Liva'Hana and that holy city are intimately related to each other, and cannot be feparated. Yet we find Sa'Liva'Hana fometimes leaving Pratish'tana, and going to refide at Ujjain, after the defeat of Vicrama'Ditya; as in the legends relating to him, under the names of Vi-Sama-Sila, and

^{*} See also Mr. GENTIL's Voyage, p. 214 and 238.

DHANANJAYA. It is nearly the same with Vickama'DITYA, whose history is equally connected with Ujihan, or Ujjayini; I mean the real one, for there were several of them.

THERE are many other legends, concerning a certain holy man, who feems to be meant for SA'LIVA'HANA; but as the application is not for obvious, they will be inferted in a diffinct place by themselves.

The followers of Budd'ha and Jina, as well as the followers of Brahma', claim 'Sa'liva'hana as their own; and in the Calpa-sutra-Calicá, 'Sa'liva'hana, as his name is generally written, is faid to be a form of Jina, with the title of 'Sa'baca-Pati, or 'Sra'baca-Pati. The followers of Gautama, the Bódhi-Swata in Siam, and the Burman Empire, called him De'va-Tat, which is a corruption from De'-va-Tasht'a' or Detva-Twasht'a', the divine artist, or Tacshaca: and that it is so, is afferted from the Buddha-charitra in my possession, wherein he is called Vis'vacarma. They say, that he was a collateral form, or the brother of Budd'ha, and they are fully persuaded, that he is the same with Christ. Their being made contemporaries, shews that through this whole romance, there is an obvious allusion to the wars and feuds between their followers in subsequent ages.

This fingular mode of treating hiltorical events, is not peculiar to the Hindus; for the Greeks feldom distinguished between the tutelar deities, and their disciples, associates or followers, who were called by their titles. These tutelar deities were supposed to lead their armies in an invisible manner, though they sometimes appeared, and victory was always ascribed to them. Thus the wars of the Muhamedans with the

Spaniards, might be ascribed to Muhamed, and St. Jago the chants pion of Spain, who led constantly her armies, and destroyed very many Moors; hence he is called St. Jago Mata Moros. Drodorus the Sicilian says the same of Alexander the son of Jupiter; and, though dead, he was supposed to be at the head of the armies, and to regulate the conduct of their chiefs, and thus every victory was ascribed to him.

In many parts of the Peninsula, Christians are called, and confidered, as followers of Budd'ha; and their divine legislator, whom they confound with the apostle of India, is declared to be a form of Budd'ha, both by the followers of Brahma, and those of Jina: and the information I had received on that subject, is confirmed by F. Paulino.

Some legendary tales, obviously relating to the death of our Saviour, have found also their way into the Peninsula. There was a certain Peishé cára Bráhmen (for thus the Christians were called, and Christian in the Apocryphal Gospels, and by the Manicheans was confidered as a Peishé-cár Bráhmen, an artist, manufacturer, or carpenter,) who came to a certain place, and there loudly proclaimed, that all perfons in distress should come to him; and that he would take them under his protection, and even lay down his life for them. He was then sitting like a Muni, or contemplator; and many came to him; among them was a thief, who had robbed the King's palace to a considerable amount. The officers of justice soon arrived in pursuit of him;

Diod. Sic. p. 660 and 678.

[†] Systema Brahmanicum, p. 161.

to die in his place; and in that of all those, who claimed his protection. The King ordered, that the holy man should suffer immediate death, upon a Sula or Suli, which means a stake, either one for empaling, or a gibbet, or cross. Crucifixion being unknown to the Hindus, they of course, have no name for it: and Sula or Suli, originally a stake, signifies also a gibbet, or the cross; exactly like Stauros in Greek. It is so even in the Persian language; and so it was among the Romans, according to Seneca: ** crucifixion signified both empaling and extending the arms upon a cross bar; for these two modes of punishment were equally in use among them: a circumstance very little known.

THEN the holy man was stretched upon the Sula, amidst the lamentations of the surrounding multitude, to whom he observed, that he came for that purpose, (to atone with his life for the sins of others). The Sula was suddenly changed into a Sala, or tree loaded with slowers; a pushpa-varsha took place, as usual on such occasions; that is to say, it rained slowers from on high; a celestial car, with divine choristers, came down to translate into heaven the holy man, who, taking the thief by the hand, said, "thou shalt also be with me in Cailasa or paradise." Thus they went to Cailasa in the presence of an immense croud, who with uplisted hands, loud huzzas, and tears of joy, testified their satisfaction, at the sudden change. The Musulmans, and the Manicheans, with many other sectaries, will not allow that Christ was really crucisied. Some say, that it was a mere illusion; others allege,

that he disappeared, and went to heaven. The Manicheans, who spread their errors at a very early period, not only in the northern parts of India, but also in the Peninsula, always represented Christ crucified upon a tree, among its soliage and slowers. Though this legend is not applied to Sa'll-va'han, or Sa'la-va'han, as it is pronounced in the Dekhin; yet, when the good Peshé-cár Bráhmen was stretched upon the Sula or Suli, he was really Suli váhana, or cross-borne; and when the Sula was changed into a Sála or tree, he was certainly Sálavváhan, or Sali-váhan, he who was exalted, or borne upon the tree. Though the punishment of the cross be unknown to the Hindus, yet the followers of Budd'ha have some knowledge of it, when they represent De'va-Tat, crucisied by order of Budd'ha upon an instrument somewhat resembling a cross, according to the account of several travellers to Siam, and other countries.

We read in Sanscrit lexicons, that 'Sa'LIVA'HAN was also called HA'-LA a plough; it should be HA'LA-VA'HANA, or in composition, HA'LI-VA'HANA; he who was borne, or crucified upon a plough. The old Indian plough had originally the shape of the letter Y, like the old Latian Furca, or bifurcated stump of a tree. To one branch, the plough-share was fixed; and the other branch served as a handle. In the statues of VISHNU, and BALA-RA'MA, the plough in their hands is represented nearly in that manner; and, from that circumstance, BALA-RA'MA is called also HA'LA, and HA'LI, or he with the plough.

THE legend of the good Peishé ear Brahmen, is found in Major MACKENZIE'S historical sketches of the ancient Kings of Warangola,

en with the history of the first Kings of that country, and of course the compilers by no means entertained an idea, that it was anterior to the Christian Era.

As I was mentioning this traditionary legend to some learned Pandits, they informed me, that the same, or one at least very much like it, was to be found in the Mahá-Bharata, the Sahyadri-c'hand'a a section of the Scanda-puran'a, and in the Bhigavata also. I produced the books, and they pointed out the respective pages immediately. I read the whole, and found it illustrated with circumstances of a most extraordinary nature.

In the Bhagavata, and its commentary, this legend is only alluded to. In the Maha-Bharata there is a fhort account of the transfaction; but in the Sahyadri-c'handa, the legend is drawn to a very great length,* and the principal features, and circumstances in these legends, which in reality are but one, are the following.

THERE appeared, in the Dekhin, a most holy Brahmen, of those called Peishé-caras, Taeshacas, Súbacas, or handicraftmen, and whose name was Mand'avran. He proclaimed, that he came for the sole purpose of relieving the distressed; and that whatever men claimed his protection, he would readily grant it to them, and even lay down his own life for them. Very many of all descriptions came accordingly;

^{*} Bhagavata; Section 1. p. 13. Mahá-Bharata; Section 1.

and among them a thief, who being pursued by the officers of justice, elaimed his protection, which he readily granted, and was really crucified in his room. He then ascended into heaven, and took the thief along with him,

This circumstance is otherwise related in the above Puranas. A numerous banditti had taken shelter near the holy man, thinking themselves safe: but the officers of justice arriving, they were seized, and immediately crucified. The holy man was supposed to be a thief, numbered among them, and crucified also. He did not open his mouth, but remained absorbed in holy contemplation, inwardly repeating sacred names, with his arms extended, and uplisted.

WHILST on the crofs, all the Rishis crowded from all parts of the world, in the shape of birds, to see him, and comfort him. A certain thief, who was also covered with leprofy, and, in consequence of it, deprived of the use of his limbs, was accidentally dropped at the foot of the crofs, wrapped up like a child in his swaddling clothes. The man, after remaining there some time, was perfectly cured; and, being irradiated, repented, lived to a good old age, and obtained esternal blifs. A thick darkness overspread the face of the world; and the animated creation was in the utmost distress, and consternation. The holy man, being afterwards taken down from the cross, descended into hell, and there encountered, and overcame, death, or YAMA. Then a general renovation of the world took place, under the inspection of BRAHMA. The holy man, from his having been crucified, was ever fince called Sulastha, or the cross-borne, which is synonymous with

*SA'LIVA'HANA. If we prefix, to this abstract, the legends concerning the infancy of 'SA'LIVA'HANA, and the era of his manifestation, we shall have the principal circumstances of the life of our Saviour, either from the true Gospels, or from the Apocryphal ones.

THERE are two fingular circumstances in these legends: the first is that it was decreed, that the iron should pierce the body of Mand'avyah, as well as that of Crishna, because both were accursed, though guiltless. The second is that neither Crishna nor Mand'avyah died, the first in consequence of his wound, nor the second after being crucised: and both are represented as contemporaries.

THE Christian fectaries in the first ages, and MUHAMED himself with the Muslemans to this day, highly reprobated the idea of Christ dying upon the cross, and even considered it almost a blasphemy. Crishna, though guiltless, was involved in the general curse denounced against his whole tribe, by which all the Yadus were doomed to be pierced with the iron, and to die. Neither Crishna, nor Mandavyah could die; but they were to be brought, as near as possible, to the point of death, that the words of the Muni should not be done away. Besides, Yama, as King of death, has a claim upon every individual, and with regard to some exalted characters, he must be satisfied, and a compromise must take place. But another difficulty arises; Yama cannot condemn a man to die, without some reason; it would be unjust in him, who is also king of justice. All incarnations of the deity, however dignified, and exalted, such as that of Crishna, which is considered as the first in rank, and the most perfect of all; all manifestations of

the deity, I fay, on becoming flesh, are more or less subjected to the infirmities, and even the weakness of human nature, being certainly involved, in some measure, in the gloom of maya, or worldly illusion. In this case, Yama is always sure to find some taint of negative guilt, in consequence of which, he can, at least, bring them to death's door; and it was found that Mand'avya, in his infancy, had destroyed a feeble and innocent insect, by piercing him, either with a needle, or with a blade of grass. This fatal needle was the only thing, that Christ ever possessed in this world; yet, however insignificant in itself, it was certainly a wordly implement, and it prevented his admission into heaven, according to Muslemans in India; neither will he ever be admitted, till after his second manifestation, at the end of the world. Others say, that he was admitted into the fourth only, instead of the highest heaven, on that account.

WE read in the Mahá-Bhárata, that there was a most holy and pious Bráhmen called Mand'avya, who was making tapasya with his arms uplisted, absorbed in holy contemplation. Some lóptras, listers or thieves, placed themselves near him, with their stolen goods, thinking to be safe; but the King of that place, who was in pursuit of them, ordered them to be crucified, and as the holy man gave no answer, he was numbered among them, and crucified with the rest. In the night time, all the Rishis, hearing of his missortune, slocked from all quarters, in the shape of birds, to comfort him. In the mean time the thieves died on the cross; but the holy man remained meditating, without uttering a word, with his arms uplisted. The King, hearing this, immediately saw that Mandayyah was a Rishi, and hastened to take

him down from the cross; and then falling at his feet, humbly begged his forgiveness. Immediately the Rishi descended into hell, and asked the King of death, and of justice, how he could allow him to be crustified, as he was guiltless. Yama answered, that in his infancy he had pierced an innocent insect with a blade of grass. The Rishi said, that at that age, he could not incur guilt of any kind, and of course drove him out of the infernal kingdom; and willed, that he should be born of the womb of a woman of the Sudra tribe. This was effected in the house of Vichitranisma, who was dead; but Dwaipa'yama or Vya'sa, raised seed to him, through his wise, and a handmaid. Yama was born of the latter under the name of Vidusa, and remained on earth 100 years, during which the government of the infernal regions was committed to Aryama', according to the Bhágavata. In the Sahyádri-c'hand'a, we have a most prolix account of this momentous event, which I shall give in abstract.

fhall be remitted. In the forest of Dand'aca, in the Sahyadri mountains in the Dekhin, on the banks of the river Pranita, was the hermitage of Mand'avya, a most holy Rishi, most benevolent, and no accepter of persons. There he remained, between five fires, entirely taken up with holy contemplation, and inwardly repeating sacred names. A numerous banditti, with the goods they had stolen, being pursued by the King, at the head of a strong party, took shelter near the holy man. As soon as the King came, he ordered them all to be crucissed immediately; and the holy man was numbered among them; and

from his being crucified, he was, from that time, furnamed Sulastha, or the crofs-borne.

'THERE lived in the adjacent village a most virtuous, and faithful wife, who was married to a thief, and a debauchee, whose whole body was covered with leprofy; some of his limbs had dropped, and others were deprived of motion. He was very fond of gambling, and his faithful wife used to carry him, wrapped up like a child in swaddling clothes, to a gambling house, where he spent a great part of the night, when she carried him back in the same manner. It was midnight, and the night very dark, she passed near the cross, and stumbling against it, she shook it violently, and let her husband fall at the foot of it. holy man being put to great pain, faid to her, at the rifing of the fun thy husband shall die. Such are the powers of a virtuous and faithful wife, that she forbade the sun to tife. A thick darkness covered the face of the world, and lasted 10,000 years, during which the gods and the created beings, were in the utmost distress and consternation. to the remarked to the Point of the land of the land

'ALL the gods, with 'SIVA and BRAHMA', went to VISHNU the preferver, who resides on the northern shores of the White Sea, that is to say, in the sacred isses in the west. VISHNU was very much embarrassed, as he did not wish to reverse the decrees of either of two such exalted characters. 'After some consideration, he said to the gods, "Anasu'ya' the wise of Atri is most virtuous, and faithful; go to her, and prevail upon her to go, and speak to the wise of the thies; when they will together come to some arrangement." Anasu'ya' consented, and after having discussed the matter with her, every thing was settled.

In her character of a virtuous and faithful wife, she ordered, that the hufband fhould live; and Gun'AVATI, the thief's wife, ordered the fun to rife. Still it was necessary to fatisfy the holy MAND'AVYAH, whose words could not be done away. They agreed, that in future, all married women, when it is dark, or night, should remain as in a state of widowhood, taking off their nuptial drefs, and ornaments. The benevolent MAND'AVYAH was easily pacified, the fun role as usual, darknels was dispelled; the holy man, who had remained all the while abforbed in contemplation, with his arms uplifted, descended from the cross; the leper, at the foot of it, was cured of his disease, lived to a good old age, and obtained eternal blifs; and the two virtuous and faithful wives were crowned with honor and glory. The air was filled with numberless choirs of celestial minstrels, singing heavenly strains, and the whole concluded with a shower of slowers from on high. In the mean time, the animated beings had all perished; and BRAHMA was directed to proceed immediately to a new creation, and a general renovation of the world took place.

II. CHRISTIANITY, certainly, had made a great progress in the Peninsula, even at a very early period. The venerable Pantanus of
Alexandria visited India, about the year 189; and there found Christians, who had a copy of the Gospel of St. Matthew in Hebrew, which
he carried to Alexandria, where it existed in the time of Jerome.
Frumentius, the Apostle of Abyssinia, who had resided a long time
in India, and spoke the language remarkably well, preached the Gospel in the southern parts, where he had great influence, and was highly

respected, having been for many years prime minister, and regent of one of the Kings, during his minority. There he converted very many Hindus, and built many churches, and then went to Abyssinia. He came to India with his brother Adesius, along with their paternal uncle, a native of Tyre, who was a Christian, and a very learned man. He travelled into the interior parts of India, as a philosopher; and . having fatisfied his curiofity, he re-embarked, on his way back, with his two nephews; but, happening to put into a certain harbour, in order to get a Supply of water, they were, at their landing, suddenly attacked by the natives. Many perished, and the rest were carried into captivity. Among the former was the uncle; but his two nephews were presented to the King, who took particular notice of them, and they were afterward raifed by him to the first dignities of the state. They obtained leave to revifit their native country, when FRUMENTIUS was ordained a bishop, and in that character went back to India. At the council of Nice, in the year 325, the Primate of India was present, and subscribed his name. In the year following, FRUMENTIUS was confecrated Primate of India, by ATHANASIUS, at Alexandria. He refided in the Peninsula, and the Christians there had always a bishop, called the Primate of India. The Christian religion made also some progress, in the north of India. Mus Eus bishop of Aduli, on the Abyssinian shores, visited the northern parts of India, in the latter end of the fourth century, in company with the famous PALLADIUS, a Goth from Galatia. When they arrived on the borders of India, they were both difgusted with the climate. PALLADIUS went back, but Mus Eus proceeded to the leffer Boe'hara; where, it feems, he was

more successful. Yet there was, at Sirhind or Serinda, a seminary for Christians, in the sixth century: for, in the year 636, two Monks, who had long resided there, returned to their native country; and being at Constantinople, the Emperor Justinian sent for them, to inquire into the nature, and origin of silk, and he prevailed upon them to go back to Sirhind, in order to bring from thence the eggs of the real silk buttersly.

THEOPHILUS, the famous Arian bishop, * was a native of Divus, now Diu in Gujrat; and, as he was remarkably black, he was firnamed the Blackamoor. His Hindu name was probably Deo PA'L, perfectly fynonymous with THEOPHILUS in Greek. He flourished in the times of the great CONSTANTINE, and of his fons: and he had been fent to Constantinople with others as hostages. From this circumstance it appears, that the inhabitants of Gujrat, who have been always famous as pirates, had ill used the Roman traders. There was a great trade carried on, at that time, to India, by the Romans; and there was an annual fair held at Batne, for the vent of Indian and Chinese commodities, and there was a great concourse of merchants, many of whom were settled there. It was lituated at some distance from the eastern bank of the Euphrates, and nearly in the same latitude with Antioch. He was very young, when he was fent to Constantinople, where he studied, became a Christian and embraced a monastic life. He was afterwards ordained a bishop, and sent to Arabia by Constantius, in order to promote the interests of the Christian religion. He met with great opposition

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[.] See Philistorgius, Sozomenes &c.

from the Jews, who were very numerous in that country; but fucceeded at last, and built three churches, for the benefit chiefly of the Roman traders. One was at Taphar or Tapharon, now Dafar, and the metropolis of that country; the second was at Aden near the straits of Babelmandel, and the third near the entrance of the Persian Gulf. From thence he went by sea to Diu, his native country, visited several parts of India, comforting the Christians, introducing wholesome regulations, and spreading the errors of Arius. He thence returned to Antioch, according to Suidas, where he lived a long time highly respected. He accompanied afterwards Constantius Gallus into Germany, as far as Petavium, now Pettaw in Stiria, in the year 354.

MARUTHA, a Hindu and a bishop of Suphara, now Sufferdam, afsisted at the Synod of Sides in Pamphylia, in the year 383. He was asterward translated to the bishoprick of Meyaferkin, on the borders of
Mesopotamia, when Yezdejird I, King of Persia, charmed with his
piety, was very near becoming a Christian; and Chrysostom speaks
highly in favour* of our bishop. According to the Notitia of Nilus
Doxopatrius, the Greek Patriarch of Antioch ordained a certain Ramogyris Metropolitan of India: and, from his name, there is every
reason to believe, that he was also a native of India, where the appellation of Rama-Gir is by no means uncommon. Cosmas Indiapleustes, who visited India about the year 522, says, that there were
churches, and priests, with the whole liturgy, in Ceylon: also on the

* See Phillippello, Sokomen S. Ac.

^{*} Photii Biblioth. p. 38 &c.

Malabar Coast, and in the north west of India. In these countries, says he, there are a vast number of churches.

THE Mission of St. THOMAS to India, with the surprising progress of the Christian religion, are facts, in my humble opinion, fufficiently authenticated. JEROME, who died in the year 420, speaks of the Misfi n of St. Thomas to India, as a fact univerfally acknowledged in his time: but I must refer the sceptic reader to the works of FABRICIUS, and Assemanni, unfortunately not to be procured in this country. But the learned history of the Anglo-Saxons by Mr. TURNER will abundantly make up for this deficiency, in his differtation on the embaffy of the bishop of Shireburn, sent by the great ALFRED, to the tomb of St. THOMAS in India. That the holy Apostle suffered martyrdom in India; is fufficiently proved: but, at the same time, it is certain also, that his body was afterwards carried back, and deposited at Edessa, as attested by Rufinus, who went to Syria in the year 371, and remained there twenty-five years. The place, however, where he was first entombed, became a famous place of pilgrimage, where probably, they kept some particles of his body, either true or false: but the chief relie was his blood; which had impregnated the fpot, where he fuffered martyrdom. This earth was carried, in small quantities, all over the Peninsula; and, being drunk with water, proved most efficacious, in all' forts of diseases, and complaints. His tomb at Edessa was probably destroyed, during the wars of the Emperors of the west with the Persians; or afterwards by the Muslemans.

In the fixth century, GREGORY of Tours, the father of French hif-

who had visited the tomb of St. Thomas in India. In the ninth century, Sighelm bishop of Shireburn was sent there also by Alfred, in consequence of a vow. Now, these two clergymen were too orthodox to worship the tomb and relics of an heretick, a Nestorian of the same of Thomas, as has been supposed by many; and they were too near the time, in which he lived, to have been imposed upon. The two Muslemans, who visited that place soon after Sighelm, mention the church of Thomas, on the Coast of Coromandel, as well as Marco Polo about the year 1292, long before the Portugueze had sound their way to India. M. Polo says, that Christians and Muslemans were very numerous in the Peninsula.

The place, where he suffered martyrdom, that is to say, the country about Madras, was seldom visited by merchants, as there was no trade. His body, or tomb at least, was in a small city of that country; and the native Muslemans, and Christians, held it in great veneration. Pilgrims, from distant countries, came to visit this holy place; and the earth impregnated with his blood, was given in some beverage, to sick and infirm people; and miracles were often performed there. In speaking of Aden in Arabia, he informs us, that "St. Thomas was said to have preached there, before he went to Maabar in India, where he suffered for Christ, and there reposes to this day his most holy body. In that country (Maabar) the Christians are good soldiers, and remarkable for their honesty."

THE inhabitants fay, that the holy Apostle was a great prophet, and they call him AVARIIA, which in their language signifies a holy and

pious man. As MARCO POLO has given us the meaning of the word Aváriia, it is very easy to reascend to its pure and original form, which is Av-Aryya in Sanscrit; and, as he fays, that the Christians there were highly respected, being good soldiers, and above all, good and holy men, remarkable for their integrity, they were certainly Av-'Aryyas, or 'Aryyas, as well as their holy Apostle. The word Avaria is derived from the Sanscrit compound Av-Aryya, from two words perfectly fynonymous, Ava, and Aryya. The first is rendered in lexicons, by 'Sudd'ha, or Pavitra, equally implying holiness, and purity. It is often used in composition, where it enhances the sense. One of the titles of Budd'ha is Ava-Lo'cita, or Ava-Lo'ca-Na't'h, the holy fovereign of the world: AVA-RO'HA or A-RO'HA, well feated, This word is very often pronounced ABA, and more particularly fo, in the S. W. parts of India: and the fame M. Polo mentions in the country of Lae, a race of most pious men called Abraiani and Abraiam in the M.S.S. But the editors thought proper to write that word, Abrajamim; because they conceived that they were Brahmens. But it is much more probable, that it is the same word with Avariam, or Avariia, which he mentioned before. Ab-Aryya in the objective case, in the fingular number, makes Ab-Aryyam, and Ab-Aryyan in the plural, in the first case. These Abraiani, says he, have in abhorrence lying, theft, and cheating. They marry but one wife, and abstain from intoxicating liquors, and flesh. They eat moderately, and their fasts are long, and most severe: otherwise, says he, they are idolaters. He then mentions other idolaters in that country; but from the context, entirely different from the Ab-Aryyas: who, it feems, were only degenerated

Christians, who had in great measure relapsed into the errors of their ancestors, and of their contemporaries.

these good people, with the most austere manners, called 'Aryyas, seem to be the same with the holy and rigid penitents, and anchorets mentioned in the third century by Prolemy in the country of Arisca, a derivative form from 'Aryya, under the name of Tabassi Magi, from the Sanscrit Tapaswi, pronounced Tabasá in the Tamuli Dialest; and which signifies contemplators, and by implication men performing austere penances, like the anchorets in the wilds of Thebes, and Tabanna in Egypt; which denominations are probably derived from Tapa, austerities, and Tapóvan, the wilderness of austerities. The 'Aryyas are mentioned in the Brahmán'da-purána* as a powerful tribe of foreigners (Mléch'ha) living among the mountains of the Dekhin.

PTOLEMY says, that Ariaca belonged to the Sadinoi, a strange name certainly for a tribe. I suspect however, that it is derived from the Sanscrit Sád'hana, and that the 'Aryyas were thus denominated by the native Hindus, in the same manner, that the Portuguese were styled in Bengal, T'hac'hurs, rulers or lords, and the English all over India are called Sáheb-lócas, or Sahéb-lógues, and the most apposite Sanscrit expression for the above epithets is Sádhana: the English are often styled by learned Pandits, Sádhana-Engriz: and the samous Bho'Ja is often called Sádhana Bhója. M. Polo mentions also Abraians on the Pearl-

^{*} Section of the Earth.

Tishery Goast; these were consulted by the fishermen; but, he says that they were bad men, and great sorcerers: and their descendants, to this day, are not much better. According to the acts of St. Thomas, and other notices, the holy Apostle embarked at Aden in Arabia, in his way to India, where he landed at a place called Halabor, and afterwards Salo-patan, synonymous with Salo-pur, or Sala-buram, Hala-buram; and now Cranganor. He was well received by Masdeus, called also Segamus, King of that country, whose son Zuzan he converted, and afterwards ordained him a Deacon. The Apostle, long after, suffered martyrdom, at a place called Calamina, known afterward by the name of Maliar-pur, or the city of Pea-cocks, from the Sanscrit Meyür pura; and the same which is called Maliar-pha by Ptolemy. Its present name is St. Thome, called by the Arabs, during the middle ages, Betuma, or Beit-Thoma, the house or church of Thomas.

MASDEUS, the name of the King, who kindly received St. ThoMAS, Zuzan that of his fon, and Segamus his own firname, are all
Hindi denominations. Maso'eus is for Basdeo, the ufual pronunciation of Va'su-de'va in the spoken dialects. Segamus is for SugaMA, synonymous with Sugar, and shews that he was a follower of
Budd'ha: and Sangama, even now, is not an uncommon name in
India, particularly in the Peninsula. Zuzan is for Sajana, or Sezan, as written by Father Giorgi. It is the name of the father of
Budd'ha, called also Ajana, by the Pauran'ics; and the disciple and
successor of Manes, who pretended to be an incarnation of Budd'ha,
was called Sisinius.

THE place of his martyrdom is called Calamina by HIPPOLYTUS, according to Mr. TURNER. Calamina is a Tamuli denomination, and literally fignifies earth, and stones, alluding to the nature of the foil. It is fynonymous with Mana-para, which fignifies the fame thing, according to F. BARTOLEMEO, a missionary acquainted with both the Sanscrit and Tamuli languages: but I by no means conceive them to be the same place. Cala or Calu in Tamuli signifies a stone, or Callon in French, and Mana earth. Thus, point Calymere, the true name of which is Cálá-medu, fignifies the stony hill. There were two bishops of the name of Hippolyrus, one of whom refided in Arabia, and they were contemporaries. The latter probably wrote the treatife concerning the peregrinations of the Apostles, and died, A. D. 230.* DOROTHEUS, another bishop, born in the year 254, wrote also on the fame subject; and some fragments of his work are to be found at the end of the Chronicon Paschale. There he afferts, that St. THOMAS died at Calamita (Cálá-me'du,) which is synonymous with Calamina, or nearly fo. thalf denominations. Masurus is for Branco, the u

Some Manicheans, at a very early period, went to the Malabar Coast: for, according to La Croze, in his history of Christianism in India, the Christians of that country said, that, before they had submitted to the jurisdiction of the Catholicos, or Nestorian Patriarch, and of course, before the arrival of Mar-Thome, there came into their country a certain Mannacavassar, who preached a new doctrine, seduced the people by his pressiges, and introduced his errors. La

Series Patrum, p. 62.

Dut suspected that he was a Manichean. He was called, by the people of the Dekhin, Mani-Cavissar, which signifies the bard, the prophet Mani. Cavissar is derived from the Sanscrit Cavi, poetry, songs, and Is ware lord, chief : Cavis'ar, for Cavyes'wara, signifies the lord of the song, or the chief bard, and is used in that sense in the Peningula, according to Major Mackenzie.

The two Musleman travellers in the ninth century, and the Nubian Geographer, probably on their authority, declare, that there were many Christians, Manicheans, Jews, and Muslemans in Ceylon: and that the King encouraged their public meetings, and that the learned Hindus of that country used to frequent them; and that the King kept secretaries to write down their respective histories, and the exposition of their dostrines and laws. These two travellers were in Ceylon, at that time; and these meetings, as well as the places at which they were held, are called Charchita by the Puranics, and appointed for the purpose of making Charchi, search or investigation, into new dogmas, and opinions, which began to disturb the peace of the country.

THE Muhamedans in India acknowledge the early establishment of the Christians in that country. FERISHTA, in his general history of Hindustan, says: "Formerly, before the rise of the religion of Islam, a company of Jews and Christians came by sea into the country (Malabar) and settled as merchants or Pishcaras. They continued to live there until the rise of the Musleman religion."*

Afiat. Reg. Mifcell, p. 151.

III. The decline of the Christian religion, in India, must be attributed, in a great measure, to the progress, equally rapid and associations, of Islamism, in Syria, Persia, Egypt and Arabia. The Christians in these countries, being in a state of distraction, no longer sent passors to India; as we are informed in a letter written in the seventh century, and still extant, according to Mr. Turner. There we see the Nestorian Patriarch Jesujabus of Adiabene, reproaching the Metropositan of Persia, with having shut the doors of the episcopal imposition of hands, before many people of India; that the sacerdotal succession had been interrupted, from the maritime borders of Persia, down to Colon, or Coilan, a space of above 1200 Farsangs. This agrees with what is related by Musleman writers, who say, that in the reign of the Califf Aboutmane, in the latter end of the seventh century, the Christians of India sent to Simon, the Syrian and Jacobite Patriarch of Alexandria, requesting that he would send them a bishop.*

The bulk of the Christians of St. Thome, according to Mr. Wrede, like the Aryyas, confided of converts from the higher classes; and they were nearly upon the same footing with the Brahmens, and Nairs or nobles. They were originally much respected by the Hindus, and native princes; and they confidered themselves equal in rank with the Brahmens, and Nairs, and claimed the same exemptions and privileges, which were granted to them. Many amongst them, preserve till now the manners, and mode of life of the Brahmens, as to personal cleanliness, and abstaining from animal food: and the Roman missiona-

[.] See D'HERBELOT's Biblioth, Orient. v. Hend, u Sind p. 415.

ries, in general, adopt the same regimen, in order to gain credit among

THESE Christians were then very properly denominated 'Aryyas, and Tacshacas, or Peishcara Brahmens. These and their Kings probably introduced the Christian Era into their country: but, in the same manner, that their fanctity, and their power in India are foretold in the Puranas, their fall is equally mentioned. When, says the compiler of the Vayu-Purana, their time is come, the 'Aryyas will pass away, like the rest.

THESE good 'Aryyas are called 'Salwas, 'Salavas and Salyas in the Cumarica-c'han'da. These three forms are regular, but the last, according to Mr. Joinville, prevails in the Dekhin, and Ceylon; where they are called 'Sale, 'Salyas, and Challyas, because, I suppose, they were the followers of 'Sa'la. They are called also in that country, 'Saca-Raja-vansas, and 'Sala-vansas in the western parts of India. They are now followers of Budd'ha; and in the Peninsula the Christians are included in the general denomination of Buddhists, and their divine legislator is considered as a form of Buddhists, and their divine legislator is considered as a form of Buddhists.

TEE chief of the 'Salyas, or 'Aryyas, is called 'Aryya-sira' by the followers of Budd'ha, a Sanserit compound implying as much. He was overthrown by Budd'ha, and yet he is called Pra-Aryya-sira, or Pra.'Aria-seria, the venerable Sire, or chief of the Aryyas.

THE Manicheans, and the Muslemans, on the authority of the Apocryphal Gospel of the childhood of Christ, and that of St. BAR-

. the figure vol. vis. or see that

NABAS, of which they have copies in Arabic, Persian and even in the western languages of Africa, represent CHRIST, as the most complete Tacshaca, that ever existed. He was not only an excellent carpenter and statuary; but he was deeply skilled in the combination of all forts. of colours. For this reason, the ingenious H. Syke, who has given us a translation of the Gospel of Christ's childhood, from the Arabic, and some fragments of the original in Greek, says, that dyers in Persia, confider Christ as their patron. It feems indeed, that the greatest part of the Christians, in Arabia and Persia, were handicraftmen; and that they were accordingly called Peishe-caras, both because they were really fo, and because they were the followers of the great Tacshaca or Peishe-cara. According to D'HERBELOT, the disciples of CHRIST were called in Persian, and Arabic, Kassarins or Kassaruns, and Havaryuns, that is to fay, fullers and bleachers: and the priefts of the Christians of St. THOMAS are called Kassanars to this day, perhaps for Kassaruns.

MR. JOINVILLE, in his account of Ceylon,* mentions the arrival of numerous families of these Peishe-cáras, Peish-cárs, into that island; and declares, that they were all artificers, and handicrastmen, as implied by their name, which is truly of Persian origin; though used all over India, in the northern parts of which, it is generally pronounced Peishe-Ráz. According to T. Hyde, the Parsis in India, are all artificers, and those in Kirman deal chiefly in woollens.

THERE were formerly Brahmens in India, fays the fame gentleman, who were handicraftmen, such as weavers, weaving stuffs variegated

As. Res. vol. vii. p. 433, 443.

with gold and filver, and of divers colours. These were called, from that circumstance, Peish-cári-Bráhmens. But they could not be followers of Brahma'; for the employments of weavers, and dyers, are absolutely incompatible with the facerdotal class: in extreme distress a Bráhmen may sell stuffs, but even then, under very peculiar restrictions. They might however have called themselves Bráhmens, at least their priests, without any impropriety; for every priest is really a Bráhmens men in his own religion. A sew individuals might have become weavers; but then, they would lose their cast, and it is impossible that a numerous body of Bráhmens should follow that profession. It is then much more probable, that they were not strictly speaking Bráhmens of Hindu extraction; but the followers of a new religion, introduced by foreigners, the disciples of a Peish-cára, and themselves Peish-cáras, or at least many of them.

Their first arrival in Ceylon, happened nearly about 1845, after the famous war between Ra'ma and Ra'vana, called the Ravana. Yuddha. Ra'ma lived thirteen generations before the Cali-yuga, answering to about 400 years; and the Cali-yuga began 1370 years before Christ. The completion of the 1845 years will then fall about 77 years after Christ. Vijaya, according to Captain Mahony, was the first King of Ceylon, after this period of 1845; during which, the island was desolate, and overun by Demons. Then, says the same gentleman, the Christian natives in sist, that this King Vijaya was crowned 77 years after the birth of our Saviour. This King Vijaya was not a Baudhist: for the ninth King after him was the first who embraced that religion; and his name was Deveni-pati. All the missionaries to

China, were really Taeshacas, or Peish-cara-Brahmens, in the ffrictest fense of the word, as well as the pious Moravians: and PAUL the Apostle was a Tacshaca, and a Peish-cara-Brahmen: and, by the account of Mr. WREDE in his narrative of the Christians of St. Thomé, they were formerly Peish-caras: for, fays he, they were in fact the only, or at least, the principal merchants in the country, till the arrival of the Arabs. their micht, wachest and initropriety; for every tried it can

THE ingenious Mr. JOINVILLE, on the authority of feveral treatifes in the Magad'hi language, the names of which he mentions, fays, that there were even Kings among these Peish-cara-Brahmens, in the Peninsula, to the number of thirty-five: " from the context, it appears, that some were in a collateral, and others in a successive line. The names of their kingdoms, or rather their Metropolitan Civies, were Solo patan; Mahá-pattan (now Pattan, the Bailana of Protemy in the Dekin, on' the banks of the Godaveri, to the fouthward of Dowletabad; Curu now Cauri, or Coyr); Gadahare (Gauda); Macanda, (now Maha-curida pilli); and Cás'i. This is confirmed in the Bhagavat, Vayu, and Brahmán da-purán as, in which it is declaredt that Aryya, or Saca, and Sálava was the name of a dynasty of Kings in India; and who were to be immediately followed by the invafion of numerous fwarms of other foreign tribes; and of the dynasty of these Sacas, there were five and twenty Kings, according to the Puran'as in the chapters on futurity.

SOLO-PA'TAN was a sea-port town, according to Cosmas Indopleus-TES, about the middle of the fixth century, on the Pepper, or Malabar

Coast. There were, fays he, five sea-ports famous for trade, Parti, Mangarouth, Salou-patna, Nalo patana, and Poudu-patana; and all these names are truly Indian. There are several places in the Peninsula, called Parti-guddy, or fort of Parti. Mangarouth seems to be Mangalore, and Nalo-patana, Nali-suram; Salou-patana is called Sooloo-patonow by the people of Ceylon, and had Kings of its own of the Peshe-caré-Brahmen tribe, or Christians.

S'A'LO-PATAN, otherwise Salo-buram, and Salo pur, is the same with Hala-bor, where St. Thomas landed, and its present name is Cranganore. There he converted SAJANA son of the King of that country.

WE read in the history of the Christians of St. THOMAS, that they had Christian Kings of their own; the first of whom, was called BALIARTE', from the Sanscrit Bali arhat. After several successions, one of these Christian Kings dying without male issue, adopted the King of Diamper for his son, according to the custom of the country, though he was a heathen, and appointed him his successor.

THAT a fociety of Peishė cáras, weavers, and handicraftmen, however numerous, should have Kings of their own, is inadmissible; unless they were upon such a footing, as the Christians were formerly in the Peninsula. St. Thomas converted the son of the King of some country on the coast of Malabar; and the Purán'as declare, that there was a dynasty of 'Aryya Kings.

THE name of Aváryya is not totally unknown in the Peninsula: they have still in great veneration, a certain Sibyl of divine origin, most pi-

Ous, and good, called 'Avya'r; and who lived in the ninth century. A translation of some of her moral sentences, is inserted in the seventh vol. of the Asiatick Researches. It seems she was conversant with the Christians of that country; for among her proverbs, there are some, that are far from being in the usual style of the Hindus.

THE descendants, or followers, of 'SA'LA-VA'HANA are mentioned in the commentary upon the Calpa-druma. In religious matters, and particularly in the east, they generally call the followers of any reformer,. or legislator, his descendants. In the above commentary SA'LA-VA'-HANA is declared to be a Jaina, meaning, either a follower, or a form: of JINA. He is called there also, a 'Sravaca, or 'Savaca; that is to say a Peish-cara. In the western parts of India,, as in Gurjar'at, they call all tradesman, banyans, &c. Sávacas, or Sábacas. The famous CALI-CA'CHA'RYA is supposed to have visited 'SA'LAVA'-HANA, at Pratish'tana in the Dekhin; and, according to the above commentary, he was born 993 years after the ascension of Jina, or 43 years B. C. He travelled all over the Peninsula, teaching, and explaining the doctrine of JINA; and particularly among the Sabacas. He is supposed to have taught SALA-VA'HANA some peculiar rites, to be observed at the full,. and new moon; which, he promifed, he would enjoin his descendants, or followers to observe. The poslerity of a Sabaca, or Icish.cara,. particularly in India, were necessarily Peish-caras, and Sabacas. A patronymic denomination was also given to them; for they are called 'Sálwas, 'Sálavas, and 'Sálbas in the Cumáricá c'han'da, answering to the Arabic expression, of Ashab-al-Sahb, or Salb, the followers of the cross, or of him, who was crucified. According to A. Roger, there is still

in the Dekhin a considerable tribe of men called Sátavádis, from the Sanscrit Sálavádicas, the Sálavas or followers of SA'LA.

In the Váyu-purana, they are called Sacas, and in that passage, this name is used in the room of Aryya to be found in other Puranas; and it is declared there, that they would appear with the Andhras and Pulindas; the dynasty of the first began in the year 191 after Christ: and it is obvious from the context, that the dynasty of the Sacas, Aryya's, or Salvas was contemporary with those of the And'hras, and Pulindas; though we cannot fix precisely the time when it began. By Pulindas, they understand dynasties of Kings from the lowest and vilest classes in India.

The descendants, or followers of King Saca, are called by Mr. Joinville, and Captain Mahony, Saca-Rájá-Vánsas, a true Sanscrit expression, implying as much: and we have seen, that, there are shill in the Dekhin, and Ceylon, some families or tribes so called to this day. I was greatly surprised, sometime ago, to hear from most respectable Pandits, that there was in the district of Benares, and in the province of Oude, a tribe of Rajaputras, who boasted of their descent from Sa'liva'hana; and that the chief of that tribe was considered as a living hereditary deity, and a form of Vishnu, like their Sire Sa'liva'hanana. What is still more surprising, is that this chief does what he can to conceal his divinity, and to make people believe, that it is not so. But in despite of his endeavours, some peculiar circumstances will occasionally betray him; and such an instance, it is said, happened last century. They are descended more probably from the followers of

another Sa'Liva'Hana, a Manichean, or Manes himfelf, as I observed before.

As these Rajaputs call themselves Vais'yas, synonymous with 'Sravaca or tradesman, it seems, that they originally followed that profession. Probably some will say, that if the 'Saca-Rája-Cumáras, had been once Christians, they must of course have lost their cast. This might be the case now: but, I do not believe it was so formerly; and then, the Purán'as afford us immediate remedy, for in the chapters on futurity, it is declared, that the Kings of Magad'ha would raise men of the lowest classes to the rank of Bráhmens, and other superior casts; exactly like Jeroboam, and other Kings of Israel. This prophecy was to take place, after the fall of the And'hra dynasty in the seventh century.*

Besides, a whole district, a whole tribe, might embrace another redigion, without losing cast; the full exercise of its privileges being always confined to themselves. For we must not think, that persons of the same cast, will communicate one with another all over India, and eat together, or of food dressed by another. The communication is confined to a sew samilies in their neighbourhood, whom they know to be strict observers of the rules relative to their cast. The rest of the tribe are in a great measure outcasts to them. This almost incredible adherence to the punctilio of casts, was in a great measure owing probably to the rapid increase of the religion of Budd'ha, then afterwards of that of Christ, and Muhamed, and of the heresy of

See Brahman'da and Vayu-puran'as. Section on Futurity.

MANES, in the N. W. parts of India, and also on the coast of Malabar, and Ceylon. Among the Christians in the Peninsula, be they Protestants, Roman Catholics or Nestorians, there are Brahmens, who are nearly upon the same footing with the other Brahmens; and, when acquainted with them, fuch civilities, as are usual among well bred people, are never omitted. The Christian Brahmens most rigorously abstain from beef, and animal food, though they fay they can eat of it. The greatest part of the Brahmens in Persia, Turan, and near Baku, cat beef, but never of the flesh of the cow, like many of the Egyptians of old. There are several of these Brahmens settled at Benares; and they are acknowledged as such, though not much respected, being nick named Veda brash'tas or breakers of the Vedas; for a Brahmen may be a heretick without losing his cast, which is not so much connected with his creed as might be supposed. In short, the Hindus acknowledge themselves, and it appears from their sacred books, that they are beef formerly; but they took care to inform me, at the same time, that they never ate of the flesh of the cow. It is declared, that there are no Cshettris now, or in other words, that the second class no longer exists. Yet those, who have been raised to that rank from the lowest classes. are treated as fuch by every Brahmen.

We read in the institutes of Menu, that all the Chasyas, or those who inhabit the snowy mountains, have lost their cast. Yet they must have recovered it; for there are numerous families of Brahmens in those countries, particularly in Almorah or Comanh, and much respected at Benares, who by no means consider the bulk of the inhabitants, who

are C'hasyas, as outcasts. They assured me, on the contrary, that they considered them as belonging to the second class, and that they are treated as such by every Bráhmen, in despite of Menu and of the Purán'icas.

Ler us suppose some extensive district in India folely inhabited by Europeans, and that these were entirely willing to conform, in every thing; to the religion of BRAHMA', and the manners of the Hindus. Their resolution would be highly approved of by every Brahmen; and they would foon find many to officiate, and pray for them, on their being of course paid for their trouble. Let us add to this, numerous grants of land, villages, honors, privileges, and an entire fubmission to their will, they would foon treat them as Cshettris, as they do the prefent Rajputs. It is true, they could neither intermarry, nor eat with the other Hindus, but the four great classes never intermarry, nor eat, but with particular families of the same tribe in their own class. After a few generations, they would fay of these Europeans, what they fay of the present Rájputs, and Máhrátas, that they were not originally Cshettris nor Brahmens, and are a spurious race. This would not do, it is true, for a fingle individual, who would find himfelf infulated, and lost entirely, unless he assumed the character of an anchoret or penitent. I had long conversations with learned Pandits, on the subject, and this was their opinion, and that even they might have Brahmens of their own, by studying their facred books, and obtaining the necessary knowledge, which would not be attended with much difficulty. With regard to their ancestors having ate beef, this could be no objection, as there is not a Hindu, whose ancestors, at some remote per riod, it is true, did not eat beef, and every fort of animal food, except

perhaps a few unclean forts. Whatever man, fay the learned, performs the duties (Carma) of a Cshettri, him you must consider as a Cshettri. But what should put an end to the controversy, at least in my humble opinion, is that the Mábráttas, a numerous and respectable tribe of Bráhmens, and Cshettris, are acknowledged, all over India, to be foreigners from the western parts of Persia, who lest their native country not 1200 years ago, as I shall shew in the appendix. Even though this alleged origin of the Máhráttas should prove untrue, yet the universal acknowledgment of it is very much in savour of my affertion.

THE followers of BRAHMA, and those of Budd'HA, were by no means indifferent to the progress of foreign creeds. They often ordered conferences to be held, where the principles of these religions were inquired into, the history of their legislators &c. This was practifed in Ceylon in the ninth century, according to RENAUDOT's two Musleman travellers: and Brahmens unanimously acknowledge, that this was their practice formerly, with regard to the Baudd'hists; and that these conferences were called Charchá, or investigation, search, Cherche in French; and that towns appointed for that purpose, were called Charchita-nagari, one of which is mentioned in the Cumárica-c'han'da. " In the year 3291 of the Cali-yuga (or 191 after CHRIST) King 'Su-DRACA will reign in the town of CHA'RCHITA-NAGARA, and destroy the workers of iniquity." This points out a perfecution in religious matters, at a very early period. These conferences ended in bloodshed, and the most cruel and rancorous persecution of the followers of BUDD'HA, even from the confession of the Brahmens themselves. They were tied hand and foot, and thus thrown into rivers, lakes, ponds, and

fometimes whole ftrings of them. Be this as it may, the followers of BUDD'HA did not fail to retaliate, whenever it was in their power; for Dr. F. BUCHANAN informs me, that in the Dekhin the Jainas make their boast of the cruelties, that they exercised at different times upon the Brahmens, and that there are even inscriptions still extant, in which they are recorded. This general perfecution was begun by a Brahmen called CUMA'RILLA-BHATTA'CHA'RYA; and carried on afterwards by SANCARA'CHA'RYA, who nearly extirpated the whole race. It is difficult to fay, when this took place; but as there were vast numbers of Baudd'hists in the Peninsula, in the Gangetic Provinces, and Gujarat, in the ninth, tenth, and eleventh centuries, this general profcription could not of course have taken place at these periods. It is very probable, that the Christians were occasionally involved in these persecutions, as the Christians of St. THOMAS are confidered as Baudd'hists in the Dekhin, and either their divine legislator, or his apostle THOMAS, is asferted to be a form of Bund'HA.

The Hindus, and more particularly the followers of Budd'ha and Jina, fancy, that there are hidden mysteries in certain numbers. It was so formerly in the west, among the heathens, the Jews and the Christians. All over the world, the numbers one and three were considered as radical; and their combination was subject to whimsical rules. They are by no means to be added together, for one and three in a mystical sense, are but one and the same thing. We might suppose, that the square, and cube of three would be sacred numbers, but it is by no means the case. Eight is the mystical number, and three times eight, or twenty-four is a sacred number; and being multiplied by three, the pro-

duct is mystical also, and the number of years of Ji Na's life. The reason is, that one stands in the center representing Jina, who is three and one. Eight forms sprang from this, toward the eight corners of the world, and each of these is three and one: but we cannot say, that these eight forms, with the original one in the center, make either nine, or twentyseven, for though each collateral form is perfectly distinct from each other, yet it is individually the same with the original one. Sectaries, at an early period, entertained accordingly strange notions, concerning the number of years, that CHRIST lived concealed, performed the duties of his ministry, and lastly about the length of his life. ceived, that every circumstance, relating to so exalted a character, was mysterious. Some insisted that he lived thirty, thirty three, forty, and others nearly, but not quite, fifty years. STEPHANUS GOBARUS has collected many of these idle notions, in the extracts made of his works by PHOTIUS. o had the gift of miracles, and afterted

IT is not obvious at first, why SA'LIVA'HANA is made to have lived 84 years, but it appears to me, that this number was in some meafure a facred period among the first Christians, and also the Jews, and introduced in order to regulate Baster day; and it is the opinion of the learned, that it began five years before the Christian Era, and the fifth year of that cycle was really the fifth of CHRIST, but the first only of his manifestation to the world, according to the Apocryphal Gospels; and it was also the first of the Christian Era. In this manner the cycle of 84 years ended on the 79th of the Christian, which was the first of 'SA'LIVA'HANA'S Era, and was probably mistaken for the period of his. the of the Successful was survived to profess of the relife. It is mentioned by Sr. Epipera ways, who lived about the mid-

IV. The followers of Budd'ha, in Siam and the Burman Empire, mention the wars of their legislator, with DE VE-TA'T, who, they say, is the legislator of the Christians. He is the same, who is called a Tacshaca al-To by the Hindus; and who manifested himself in the first year of the Chris-They fay, that he was, either a brother, or a relation of BUDD'HA: or in other words, he was a collateral form of BUDD'HA. They acknowledge some conformity between his doctrine and theirs, because, as they fay, his disciples borrowed many things from BUDD'HA. He allowed them, however, to kill and eat all forts of animals; and feduced very many of the disciples of Budd'HA: and aspiring to sovereignty, he waged war against SAMAN'A GAUTAMA. He appeared at the head of a new fect, and engaged feveral Kings, and nations, to join him. He had the gift of miracles, and afferted that he was a god. DE'VA-TAT being several times worsted in this war, made overtures of peace, and SAMANA-GAUTAMA confented, on condition, that he would subscribe to three articles, which he was going to propose, These were to worship, first, God; then his word, and thirdly the perfon, who imitates the divine perfection, or in other words, to worship BUDD'HA. This last article was rejected by DE'VE-TA'T or his disciples, and they went to war again; when DE'VE-TA'T was defeated in the forest of Salatuyah in the Peninsula t He was taken prisoner, and em-

and and any delify and the Christian which was the field of

See Basnage's History of the Jews, page 436. English Translation.

[†] This is noticed also in the As, Res. vol. jvi. p. 269.

paled alive, with his limbs truffed up, upon a double cross; and in that state hurled into the infernal regions. Saman'a-Gautama, however, foretold, that in the end he would really become a god. Budd'ha, or Gautama is also represented waging war with Pra-Aria-Seria, for Pra-Aria-Sira, the venerable chief, or Sire of the Aryya's or Christians; and another chief of them, called Pra-Swane, or Pra-Swana, from his loudly preaching against the doctrine of Gautama. Budd'ha and Deva-Twasht'a are made contemporaries in this romance; but this can be no objection; for it is only in allusion to the wars of their followers in subsequent times. The learned are very well acquainted, that this mode of writing history once prevailed in the west, at a very early period.

The beginning of the feventh century is remarkable for the introduction of new eras, among the civilized nations of the world. The Christian Era was introduced at Constantinople in the year 526: but, as the learned observe, it was a hundred years before it was generally adopted, and this was in the beginning of the seventh century.

The Persia, the era of Yezdegian began in the year 632: that of the Hijra was introduced by Omar in the year 638. Those of Siam with the Burmahs have an era beginning in the year 638: but as they borrowed every thing relating, either to their religion, or their astronomy, from Ceylon, and the Peninsula of India, this period must have originated there. The Japanese consider the ascension of the latter Budd'ha, under the name of Guso-bosatz, as a memorable epocha; and it happened in the year 631, because they say that he lived only 59 years, and he was born in the year 572. According to the Satrus

Jaya-mahátmya, the translation into heaven of Guzo-Bosatz or Gaja-Vasisht'a, that is to fay, he who abides in the mortal frame of an elephant, and called in the above treatife 'Srí-Hasti-s'ena, a compound nearly of the same import, happened three years, eight months and fifteen days, before the time of the Panchmárás, or Muhamed and his sour associates; that is to say, he died in November 617. But, is we suppose, with the Paurán'ics, that he lived 66 years, his ascension will sall in the year 638, according to the computation of the Burmans and Siamese. This Budd'ha was born in the year 500, and reigned 66 years, according to the Cumáricá c'han'da, in some copies of which, we read 62, and 64; but he appears to be the same with Gaja-Vasisht'a; both being represented as the last incarnation of Budd'ha; the Japanese having mistaken the era of his manisestation as a god, or his death, for that of his manisestation as a man.

THUS the Jainas in India say, that their legislator died in the year 1036 B. C. which the divines of Tibet consider as the year of his birth.

The Christians of India, in the feventh century, were actuated by the same principles, and chose the supposed year of Christ's ascension for the first of their new era. They were at that time in India in the most profound ignorance, through the want of pastors, as we observed before: and their religion was a strange medley of the Christian, and of that of Budd'ha, which prevailed at that time in the Peninsula: infomuch that M. Polo considered some of the Aryyas, in despite of their virtues, as idolaters. 'Sa'li-va'hana, or Deva-Tat, was considered as a brother, or relation of Budd'ha.

Our bleffed Saviour entered on his mission, when thirty years of age, like Budo'HA; and like him, he was born of a virgin: the additional years were introduced from their militiking the ecclefialtical cycle of 84 years for the period of his life; and like them, the Christians made a point of reckoning their era from this supposed year of his afcension. This was not peculiar to the Hindus; the Christians of Egypt chose the various manifestations of CHRIST, during his ministry, and the different events of his life, in preference to that of his birth. According to the appendix to the Agni-puran'a, the era of 'SACA, or Sa'LA-VA'HANA, was introduced into India, or began to prevail, in the year corresponding to that of CHRIST 676, exactly 135 years after the death of a certain VICRAMA'DITYA. The bloody wars, between these two exalted characters, are supposed to have been only about their respective eras; and VICRAMA'DITYA, in his dying moments, thought of nothing but his era; whill it is the general opinion, that it began at his death, and of course he could not be the author of it. One would imagine that 'SA'LIVA'HANA's era would have begun, the moment that he became a Saca, by putting to death another Saca, fuch as VICRA-MA'DITYA was; but it happened otherwife, 'SA'LI-VA'HANA thought no more of his own era, which was introduced after his death by his followers, or adherents in the Dekhin; for it never was used in any other part of. India except Bengal.

It is therefore my humble opinion, that the Christian Era was introduced, and new modelled in India by the Christians, and the Aryya, or Salava, Kings, on the decline of the Christian religion; and used by them, and other Hindus in their intercourse with them.

It is supposed, that the Bráhmens are too proud to borrow any thing from their neighbours; but this is by no means the case; and whenever they are acquainted with the circumstance, they will most candidly acknowledge it, particularly astronomers and physicians.

AFTER the conquelts of ALEXANDER, and for many centuries after, there seems to have been an eager desire, in India, for foreign arts and sciences, curiosities, instruments of music, wine, and even beautiful damfels from Greece. According to ELIAN, and DIO CHRYSOSTOM, the Hindus, as well as the Persians, had the works of Homer translated into their native languages: and PHILOSTRATUS fays, that they were well. acquainted with the ancient heroes of Greece; and that they had statues made by Grecian artists. And this is very possible, as the Greeks of Bactriana were in possession of the Panjab, for more than a hundred and twenty years. The Kings of Magad'ha repeatedly wrote to the fucceffors of ALEXANDER, for fophists, or learned men from Greece; and lately the famous JAYA-SINHA, Raja of Jaypur, wrote to the King of Portugal for learned men; and he had several sent to him; and the King of France fent him also an astronomer, P. BOUDIER. He had the elements of Euclid translated into Sanscrit, part of which fell into the hands of Mr. DAVIS. There, it is faid, that this valuable book, originally written by VIS'VACARMA, or TWASHT'A', the artist god, had been lost for many thousand years; but was rescued from obscurity, by the extraordinary efforts of JAYA-SINHA.

HE had also another voluminous treatise, called the Sidd'hanta-Samra't, on geometry and astronomy, entirely compiled from various

authors from the west. The greatest part of it is now in my possession; and was procured at Jaypur, by Colonel Collins resident with Sindra. Mr. Davis informs me also, that at the same time the work of Theodosius, on the sphere, was translated into Sanscrit: As these these are not recorded, the circumstance is hardly known now to any of the natives. Jaya-sinha had also an extract made of all the constellations in Senex's celestial planisphere, and instead of 72 afterisms, he had 144 made out, by splitting all those that would admit of it, into two or three new ones. The royal oak of course has found its way there, under the name of Mula-vricsha, the radical or primeval tree: and the Indian is called Sarendra, or the chief of archers; and as the Hindus have no altars, the constellation of that name has been converted into a footstool.

THERE is a famous astronomer, whose works, or at least part of them, are still extant, well known all over India; and declared to have been a foreigner, as implied by his name of YAVANA'CHA'RYA, or the Grician philosopher, and who lived, according to tradition, a little before the time of Muhamed. The Hindus give the name of Yavanas, or Greecks, to the inhabitants of the countries to the west of India, probably because the Greeks were once masters of Persia, and afterwards the seat of empire was fixed at Constantinople. From the account they give of him, it does not appear that he was a native of Greece; but only deeply skilled in the learning of the Greeks, having probably attended the university at Alexandria.

THEY fay, that he was a Brahmen, born in Abraia, the inhabitants of which country were, at that time, followers of BRAHMA', and that

the Sanscrit language was studied and well understood there by the learned. He came to India, where he resided for a long time, and in his old age he returned to his native country, in order to end his days at Mocshes wara sthan, or Mecca, in the performance of religious duties. Dr. Buchanan informs me, that he saw in the Debhin several tribes of Jainas, who insisted that they came originally from Mecca or Arabia; and that they were expelled by Muhamed, or his successors.

THERE are certainly followers of BRAHMA', and Brahmens, to this day, in Arabia: and I am credibly informed, by natives of that country, that in the interior parts, there are still many idolaters, whom they suppose to be followers of BRAHMA', or Hindus as they call them. The greatest part of the old names of places in Arabia are, either Sanscrit, or Hindi: and PLINY mentions two celebrated islands, on the southern coasts of Arabia, in which there were pillars with inscriptions in characters unknown, I suppose to the Greek merchants, who traded there: but these were probably Sanscrit; as one of these two islands was called Isura or Is'wara's island, and the other Rinnea, from the Sanscrit Hrin'iya, or the island of the merciful goddess.

THE Hindus claim Mecca, as a place of worship belonging to them, and certainly with good reason. They say, that they were allowed to go, and worship there, for several centuries after the introduction of the religion of Muhamed; but were asterwards positively forbidden, even to approach this sacred place.

I ALWAYS conceived, that there was only one fage of the name of YAVANA'GHA'RYA; who was confidered as a foreigner; but

having confulted lately feveral learned aftronomers, they informed me, that there were no less than five, who are considered as foreigners. Their names are C'HATTA, C'HUTTA, RO'MACA, HILLA'JA and DISHAL NA; these, it is faid, were Yavanas or Greeks. They certainly have very little resemblance with any Greek proper names, which we are acquainted with, Be this as it may, they are all supposed to have returned to their native country, with an intention to end their days at Mecca. From this circumstance, I suspect, that they were Greeks from the famous univerfity of Alexandria; and Mecca was at a very early period a famous place of worship. GUY PATIN mentions a medal of ANTO-NINUS, in which it is called Moca the facred, the inviolable, and using its own laws: and of this I took notice in my effay on SEMIRAMIS. The university at Alexandria was in a flourishing state, from the time of the PTOLEMIES, to the fourth and fifth centuries, and even till the time of MUHAMED. Hindus often visited that famous city; for PTOLEMY conversed with several, in the third century, who appear to have been well informed men.

These five foreign astronomers wrote many books: but few remain: and the reason, in the very words of my learned friends, is, that the substance of these treatises, having been incorporated into more recent tracts, they were of course neglected, and asterwards lost. This acknowledgment from Brahmens surprised me not a little; but I find, that astronomers in general, and learned physicians, are much more tractable, and conversable, than the other Hindus.

WHATEVER may be our opinion about these five strangers, their names, and their country; yet from such an acknowledgment, and

more particularly fo from Hindus, we may rest assured, that there is some truth in it. The Hindus reckon three and twenty samous astronomers, eighteen of whom were natives of India; and the five others, foreigners. These they insist were natives of Arabia: and if so, they were called Yavanácháryas, not because they were of Grecian extraction: but because they were skilled in the learning of the Grecks. Indeed their names, or rather surnames, appear to be Arabic. Hallage, and Cathan are names well known to Arabian writers: and Ebn. Dissan is the name of a samous impostor born at Edessus. Of Ro'maca or the Mle'ch'ha'vata'ra, I took particular notice before, and Disshan is the name of Omar in several copies of Raghu-na'thas list; and it was he who first established the era of Muhamed in the year of Christ 638, and for this reason, they supposed him also to be a great astronomer, as well as Ro'maca.

THERE is another astronomer, called Cangha or Cangham, and Cangheh, whom the Hindus suppose to have been a foreigner; yet Musleman writers say, that he was a Hindu, and perhaps he lived on the western frontiers of India. By D'Herbelot he is called Canghall Hindi, Kenker, Kengar and Cangha. He wrote a treatise on astrology, in Hindi or rather Sanscrit, which was translated into Arabic, and is said to be extant. He is perhaps the same with Mangheh, who, according to D'Herbelot, made so conspicuous a sigure at the court of Harun-al-Rashid, about the year 808, as a physician. The famous Dandamis or Dama-damis is unknown to the Hindus; but the Muslemans in India call him Tumtum, and D'Herbelot Thom-thom-al-Hendi. He is noticed by Abul-Fazil in his preface to the

third volume of the Ayin-Acheri. He was probably thus called, because he lived upon a Dumdum, or Dumdumá, which is a platform of earth, now more generally called a Chehootra or Tháná, from Sthána a stand.

As the names, of rather the furnames of these foreigners, are in great part derivable from the Arabic, and from no other language, it is not improbable, but that several, if not all of them, were from Arabia, whatever their religious tenets might have been. The first of them, according to tradition, lived a little before Muhamed, when the schools of Alexandria, and Berytus in Phanice, were still slourishing. From that period, learning began to revive among the followers of Muhamed; and of course this learned man flourished, from the latter end of the sixth, or from the beginning of the seventh century to the time of Al-Mamun, who reigned at Balkh in the tenth, and till the intervalion of India by the Muslemans:

THE Hindus, at an early period, were famous for their knowledge of astronomy and astrology. The latter is entirely grounded upon the former; and the accuracy of the decisions, and predictions, depends entirely upon the precision, with which the conjunctions, oppositions, and the various aspects of the heavenly bodies are ascertained. In the first century, Hindu astrologers were in high estimation and repute, at Rome, and none but the richest men could afford to employ them. It appears, from Arrian on the authority of Megasthenes,* that in the time of Alexander, they had almanaes, with predictions con-

^{*} ARRIAN de Indicis.

cerning the weather, and impending calamities, fuch as they have at present, but more particularly so in the Peninsula. STRABO says, that the Brahmens professed astronomy; and he extols, at the same time, the attention they paid to learning. Q. Currius testifies, that they skilfully observed the motions of the heavenly bodies. + Eusebius, who lived in the third and the beginning of the fourth century, fays that it was a Hindu, who first delineated schemes of the heavens, or the principal constellations. His name was ANDUBARIUS, and he was confidered as the founder of astronomy in India, and was famous for his skill and wisdom. According to Eusebius, he lived soon after the flood, in the western parts of India; and this famous astronomer probably formed, and delineated the twenty-feven lunar mansions, which frem to be the exclusive property of the Hindus. The opinion of Eusebius, and the other learned authors whom I have mentioned, was certainly that of the age in which they lived; and STRAEO fays, that the notions of the Hindus concerning the universe, and the sphericity of the earth, were the fame with those of the Greeks. They had a code of laws in the time of ALEXANDER, and they wrote upon a fort of paper; for thus I understand the words έν σινδόσι λίαν κεκφοτημέναις upon cloth well beaten. T STRABO takes notice, that in his time fome afferted, that the Hindus were acquainted with the use of letters, whilst others denied it. He adduces the above passage from NEARCHUS in

ALEXABRES, Illey

^{*} Lib. 15.

[†] Lib. S.

[‡] STRABO lib. 15. p. 717.

proof of the former affertion; but the paffage against it from MegasThenes is by no means conclusive; and seems to me, on the contrary,
to prove that they were acquainted with the use of letters; for it implies only, that they used no writing in their courts of justice in camp,
where every thing was settled in a summary way; and it is even so to this
day. Besides, says our author, such is the probity of the Hindus, that
all the time he was in the camp of Sandrocuptos, which consisted of
400,000 men, none but petty thests were ever brought before these
courts, and they (the judges) even could not write. Under such circumstances, neither any code of laws, nor much learning, or any
writing, were necessary; common sense and integrity were the only requisites on the part of the judges.*

DURING the first centuries of the Christian Era, the Hindus were very fond of travelling. Their Kings sent frequent embassies to the Roman and Greek Emperors: and some of these Embassiadors went as far as Spain. Others visited Alexandria and Egypt, where Ptolemy, in the third century, saw them, and conversed with them. Some of these Embassadors had long conferences, at Babylon, or rather Seleucia, with the samous Bardesanes: and pilgrimages to the Sthan of Mahá-Bhagá, now Mábog, or Bambyke in Syria, were very common, according to Lucian, as cited by the authors of the ancient Universal History. Even to this day, pilgrims from India go to Persia, Georgia, Moscow, and Arabia, Bootan, China, and even Siberia.

[.] STRABO lib. 15. p. 609.

We are not to suppose, that there never was any intercourse between India and the more western countries of the old continent. There were diviners and soothsayers in Syria and Palestine, from beyond the east, that is to say from beyond Persia, and of course from India, 700 years before Chaist, according to Isaiah; and these, long after, found their way even to Rome; and, according to some, it was a Hindu, that had been shipwrecked in the Red Sea, who sirst pointed out the way to India by sea.* Xerxes, when he invaded Greece in the year 480 B. C. had a large body of Hindus with him, whose officers were men of respectability, and there is little doubt, but that they had Brahmens with them, and there is little doubt, but that they had Brahmens with

THREE hundred years before our era, the Carthaginians had numerous elephants from India, and their mahots or drivers were Hindus. They feldom used the African elephants, which, says Pliny, were timerous, and could not bear the sight of the elephants from India, to The Carthaginians had no proper name for an elephant, and from the mahots, they adopted the Hindu name Gaja, which they propounced Gaisa. Till that time, they, as well as the Phanicians their ancestors, called them Elaph or Alpha, beeves or oxen: \(\frac{1}{2}\) and the Romans, when they saw Pyrrhus's elephants, called them also Luca Boves, and this was in the year 280 B. C.

POLYBIUS | informs us, that in the year answering to 251 B. C.

a Syrappa like 13: 8: 400c

^{*} STRABO: p. 98 and 100.

⁺ SALMAS. Exercitat. Plinian. p. 217.

[#] HESYCH. under the word Alpha.

¹ POLYE. Lib. 1. p. 42. and Lib. 3. p. 200.

METELLUS deseated Asdrubal in Sicily, killed six and twenty of his elephants, took one hundred and four, and sent them to Rome, with their drivers, who were Hindus. According to the same author, when Hannibal crossed the Rhone 218 years B. C. the drivers of his elephants were also Hindus; and after this period, we find a Hindi word for an elephant introduced into Italy; for till that time, they called them large oxen. This name was Barrus, or Baro, as it is written by Isl-Dorus,* who says, that it was a Hindu denomination: Baro and Barronem in the objective case, are from the Sanscrit Barana and Baranam. From Barrus or Baro, the Latins made barritus, to express a noise like that made by an elephant, and also the verb barrire; and probably the word Ebur is derived from it.

WHEN MANLIUS marched, at the head of an army, through Caria and Pambhylia, 189 years B. C. he came to the banks of a river, near the fort of Thabusian, called the river Indus, or of the Hindu; from a Hindu mahot, who fell into it from his elephant, and was drowned; and this was on the borders of the greater Phrygia. Sometime before this, we read in Alciphron's letters, that Hindus of both fexes, in the capacity of servants, were not uncommon in Greece. Several emigrations took place from India, and we find some tribes of Hindus settled in Colchis, where are Hindus to this day; and Hesychius afferts, that the Sindi of Thrace came originally from India. When Q. Metel-

[.] Isinon, de origin, of a most of case of the land bear of the control of

[†] Tit. liv. lib. xxxviii, C. 14. I belle up attended to a small solve with the

[#] BRYANT'S Mythol, Vol. 3d. p. 217.

LUS CELER was proconful of Gaul, 59 years B. C. the famous ARIO. vist king of the Suevi made a prefent to him of some Hindus, who had been shipwrecked on the German shores. They were merchants, who had ventured thus far from their native country.* In the Vrihat-catha we read of several Hindu merchants, who visited the Sacred Isles in the west, and being fhipwrecked, they were made flaves; and fome of them were fo fortunate, as to obtain their liberty, and to revisit their native country. It is declared there, that they went a great part of the way by land, and then embarked at a place called Itanca: + another harbour is mentioned also under the name of Pauta-pur, and this subject I shall refume when I come to treat of the Sacred Isles. STRAHLENBERG faw a Hindu at Tobolsk, who went from India to that place, through China. Bell faw another Hindu from Madras, on the banks of the Argone; and Mr. Duncan Governor of Bombay introduced another to my acquaintance, who had been there also. The distance from the Indus to England is one fourth less, than that from Madras to Tobolsk through China; ± and the embassadors of Poaus travelled as far as Spain 24 years B. C. The constant embassies, sent from India to the Emperors of Rome and Constantinople, are well known to the learned, even as late as the fixth century; but in the feventh, the growing power of the Muhamedans became an infurmountable obstacle to any further intercourse. Besides. the present state of society, manners and politicks in the west, make it impossible for Hindu pilgrims to travel through Europe. They would

^{*} Cornel. Nepos apud PLIN, SUETON. CICERO in Vatin. c. 10. PLUTARCH &c.

^{*} Vribat-cat'ba Lambaca or Section the 5th called alfo Chaturdarica.

[#] STRAHLENBERG p. 103. Afiat. Refearches vol. vi. p. 483.

Be stopped at every step, and occasionally confined; and instead of alms, they would receive insults only from the lower classes.

But the most famous of all, was the embassy sent by Porus to Aucustus: the embassadors went to Spain, where he was at that time, 24 years B. C. according to Orosius; and the purport of their commission was to enter into an alliance with him. But, as some time was spent before any progress could be made in this affair, other embassadors were sent by Porus, some years after, when they found the Emperor at Samos. This Porus in his letter boasted, that he was lord paramount over soo kings; and, in the supplement to the Bhavishya purana, it is declared, that no less than soo kings were the vassals of the samous Vicramama'd, that no less than soo kings were the vassals of the famous Vicramama'd, with them were also embassadors from Pandion, king of the southern parts of the Peninsula; and they had in their train a Brahmen, a native of Brigugosha (now Baroach) called C'had'ga the Sarmana, Zarmanos Chagas. He chose to remain behind, and attached himself to Augustus, in whose service he remained for some time, in the capacity, it seems, of an augur or soothsayer.*

WHEN the Emperor was at Athens, C'HAD'GA the Sarmana caused himself to be initiated into the sacred mysteries, though it was not the usual time; and soon after he voluntarily ended his days on a funeral pile. Calanus followed Alexander of his own accord, and ascended likewise the suneral pile at Pasargada. There was even a large detachment of Hindus, who followed Alexander into Persia, and which

^{*} STRABO. DIO. PLUTARCH and NICOL. DAMASCEN.

we find on the borders of Media, with Eumenes, eight years after the death of the former. It was commanded by the brave Keteus, probably Ketu, or the fiery meteor of war; and there was certainly little, or no compulsion used by the Greeks, for they took even their wives, and families along with them. Keteus died fighting valiantly, and his two wives infisted upon burning themselves with the dead body; but it was found, that the eldest was with child, and therefore she was prevented from sollowing her husband. The youngest went triumphantly, and was led by her brother, and other relatives, and servants, to the funeral pile.*

CLAUDIUS received also an embassy from a king of Ceylon: and when Trajan was marching against the Parthians in the year 103, fome princes of India sent embassadors to him, requesting him to settle some disputes between them and their neighbours, probably the Parthians. It is remarkable, that during this expedition, Trajan was constantly supplied with oysters from Great Britain; and which were preserved fresh, by a particular process, discovered by one of the first epicures of the age. There were embassadors from India sent to Antonians Pius, to Diocletian, and Maximian; to Theodosius, Heraclius, and Justinian; and we read of two Hindu kings, putting themselves under the protection of Diocletian and Maximian, and their names were Gennobon and Esatech. In the year 274, Aurelian took Palmyra, and made Queen Zenobia prisoner. There he

^{*} DIODOR. Sic. lib. xix. C. 2.

⁺ Anc. Univ. Hift. vol. xviii. p. 78.

found a body of Hindus, whom he carried to Rome, to grace his triumph. Damascius, who was contemporary with Justinian, in his life of IstDORUS, relates feveral curious anecdotes of Severus, a Roman, but by
birth an African, and who lived in the time of the Emperor Anthemius. Severus was a philosopher of most austere manners, and great
learning, and fond of the society of learned men. After the death of
that Emperor in 473, he retired to Alexandria, where he received at his
house several Bráhmens from India, and whom he treated with the
greatest hospitality and respect. Dates and rice were their food, and
water their beverage, and they shewed not the least curiosity, refusing
to go and see the most superb fabrics and palaces, with which that samous city was adorned.*

It is remarkable, that ancient travellers make no mention of the monfirous statues of the Hindus. The historians of Alexander take notice
of the Siba, carrying among their standards the image of Hercules,
whoever he was. The Suraseni round Muttra on the Jumná, had also
a statue of Hercules, tor Bala-deva. Philostratus takes notice
of some sigures cut out of the rock beyond Hardwar; but these statues
had nothing monstrous in them, no more than those made by Grecian
artists in the Panjab, according to the same author. It is not improbable then, that at that time the Hindus had not yet attempted to represent, either in stone or wood, their monstrous deities. They were first

^{*} Photii Bibliotheca. p. 1040 and SUIDAS v. SEVERUS.

^{[†} Asiat. Researches vol. v. p. 294.

wrote in the fifth century, and who fays:

Jam frugibus aptum

Æquor, et affuetum fylvis delphina videbo:

Jam cochleis homines junctos, et quidquid inane

Nutrit Judaicis, quæ pingitur India, velis.

FROM this it appears, that in his time the Romans adorned their houses with tapestries, worked by Jews, and representing all the wild, and monstrous figures of Hindu mythology, such as men growing out of shells. This is an obvious allusion to 'Sanc'ha'sura, and his tribe living in shells, and peeping out of them in 'Sanc'ha-dwipa or Zangh Bar.

In the year 529, a king of the Hemiarites in Arabia, called AL-Mon-DAR, a general name for the kings of that tribe, and generally residing at Hirah, invaded Syria; and the Roman exarchs, or Governors, were obliged to sly to India for shelter, and certainly by sea, as the Romans were at war with the Persians,* and probably they found no other means of escaping, but by getting on board of some ship just going to fail for India.

THERE were at Rome augurs, and diviners from all nations, but mostly from Chaldea. There were some from Armenia, Egypt and even a sew Jews, and particularly women from that nation. There were also astrologers, says June NAL, from Phrygia and India; and none but very rich people employed these, and this was about the middle of the first

^{*} Du FRESNOY Chronolog. A. D. 529-

[†] Sat. vi. v. 584 and 549.

LEMY, who lived in the beginning of the third century. The inhabitants of Europe, at an early period, did by no means show so much readiness in leaving their native homes to visit distant countries, and particularly India. We are told that Pythagoras and Democritus visited the Hindu sages; but these accounts are delivered in too vague a manner, to deserve any credit.

THE first European upon record, who visited India, is Scylax, a Greek and experienced seaman, sent by Darius Hystaspes above 500 years B. C. to explore India. For this purpose he went to Caspatyrus or Caspatyrus, now Coshabpoor upon the Hydaspes, cailed also Indus, and by the Hindus the lesser Sindhu or Sindh. Having made the necessary arrangements, he sailed down a large river, which slowed toward the east, and then he entered the ocean, and returned by the way of the Red Sea, and sailed to the bottom of it, where his voyage ended, after a circumnavigation, both on the river and by sea, of two and thirty months. This river is unfortunately called the Indus by Herodotus; otherwise, from the particulars, such as the course of that river, and the time that his circumnavigation lasted, one would suppose that it was the Ganges; and indeed many learned men are of that opinion:

The next European who visited India, was the philosopher Phedon, about 430 years B. C. but it was not an act of his own. He is said to have been an Elean, probably because he was a native of Elea in the lesser Asia. It is recorded of him, that he was taken, and detained by Indians, and afterwards sold by them as a slave. It is probable, that he

had been fold first to some Persian nobleman, sometime after appoint, ed to the government of some district in India, where PHEDON was carried away by a party of Hindus. Be this as it may, we find him afterwards at Athens, as a slave again, to a man, who kept women and handsome young men, for the purpose of prostitution. He was redeemed by Alcibian at the request of Socrates, whose disciple he became. He sounded the Eliac school, called Eretrian afterwards, from its having been transferred to Eretria in Eubaa, by Menedemus his successor.

There was a regular trade carried on, to India, from the accession of the Ptolemies to the throne of Egypt, to the conquest of that country by the Romans, which did not cease till the middle of the seventh century, when the growing power of the Muhamedans put an insurmountable obstacle to a regular intercourse. The Greeks under the Ptolemies, had settlements at Callian, near Bombay; but they were driven out of them by the native Kings. It seems also from the Peutingerian Tables, that the Romans had a considerable settlement near Muziris now Mirjee, where they had erected a temple in honor of Augustust; and they had also two cohorts, or 1200 men, to protect their trade. The imports and exports were the same as they are to this day, as it appears from Arrian's Periplus, and the Justinian code.

THE Greek Kings of Ballriana ruled over all the countries on the banks of the Indus, even as far as Sirhind, during a period of 129

^{*} See Suidas, Hesychius de illustrib; and LARRYIUS.

⁺ See Peutingerian Tables.

years, that is to fay from the year 255 to 126 B. C. Even some of them were in possession of the western parts of the Gangetic provinces: and Demetrius is mentioned as one of them; and according to Sig. Bayer, he never was King of Ballriana or Balk, but of some inland part of India, extending beyond the Ganges, about the year 195 B. C. According to Strabo, his predecessor Menander conquered the countries to the east of the Hypanis, as far as the Jumna.* His empire extended from Pattalena, to Zizerus, which I take to be the small, but samous lake called Jid-jer, or the spring of Jid, noticed by Ctesias, under the name of Sid, and a little to the westward of the Jumna and Dillí. †

To these conquests Demetritus added some maritime countries to the eastward of Pattalene, such as Sigertis, and the kingdom of Tessariostus, now the countries of Cachha and Gujjar'at, as I shall show in the appendix.

THERE are now numerous Hindus roving all over Arabia and Persia, as far as Astrachan, or settled in some places of trade for a sew years only, when they return to India. For I take no notice here of numerous tribes of Hindus, who are considered as natives of Persia, Turan and Colchis or Georgia: they are called Hindi all over these countries, and have been settled there from time immemorial.

and Romans, nor the Turnwania Guis nation, . 31209 111 Edil os Kare . . .

[†] See MAURICE'S Modern History of Hindoostan, vol. 1. p. 95. It is called erroneously Bhedar in the Ayin-Acberi, vol. 2. p. 107.

[‡] FORSTER'S Travels, vol. 2.

[§] According to the late Nabob MEHDT-ALI-KHAN, a native of Mesched. See Effay on the origin of Mecca, Asiatick Researches, vol. 5.

FROM the Malabar Coast they go to Mosambique, where they have agents, who generally reside there seven or eight years; and STRAH-LENBERG takes notice of a merchant from the Malabar Coast, at Astrachan.* From Surat and Gujarât, they go to Mascat and other trading places in Arabia, where Bráhmens are to be found also, according to Niebuhr. Arrian in his Periplus says, that the inhabitants of the island of Dioscoridis (now Socotora,) consisted of Arabs and Hindus, with a few Greeks, settled there on account of the trade to India. The famous Pran-puri told me, that when he was at Baharrein on the Persian Gulf, he was informed by the Hindus, whom he found settled there, that they used to go formerly to Egypt, where they had houses of agency, but that they had left off going there for about two or three generations.

This shows, that there was between the Greeks, Romans, Carthaginians and the Hindus, a constant and reciprocal intercourse (which is by no means the case now) for a period of 1200 years at least; and to which nothing, but the overgrowing power of the Muslemans, could put a stop. In visiting the sages of Babylonia and Egypt, the Hindus must have been greatly surprised, and their vanity humbled, when they heard them talk of their remote antiquity. Then, and not before, in my opinion, they resolved not to be behind hand with any of them; and certainly they have succeeded wonderfully. Neither the Greeks and Romans, nor the Turdetani a Galic nation, though settled in Spain, according to Strabo, carried history, and the beginning of things,

Alle migra of Adress America Region and

[•] P. 333.

beyond a period of 6000 years, exactly like the Jews, and Hindus formerly, according to MEGASTHENES. The Gothic tribes entertained also the same notions, as appears from the cosmogony of Orpheus, who was a Goth.*

THE Hindus had the fystem of the Yugas long before; but this was not peculiar to them, for it prevailed all over the west, and Hestod, who lived between 900 and 1000 years before Christ, declares that the Cali-yuga was just beginning; and the Jainas affert that it began about that time. Though the Yugas are of a very great antiquity all over the world, yet the Hindus did not think of stretching their duration to such an enormous length, till a period comparatively modern; and the Yugas in the west were also the component of their grand Calpa, which consisted equally of 12,000 years, but with this difference, that in the west these were considered as natural years, which is not the case in the east, at least now.

THE first time we heard, in the west, of this extravagant system of chronology, was about the middle of the ninth century; when we were informed by Abu-Mazar, a samous astronomer, who lived at the court of Al-Mamun at Balkh, that the Hindus reckoned from the slood or the beginning of the Cali-yuga, to the Hejra, 720,634,442,715 days, or 3725 years.

THERE is obviously a mistake, originating either with the transcriber or translator: but it may be easily rectified. There is exactly that

^{*} See GESNER's notes on the fragments of ORPHEUS, also FABRICIUS Cod. Pseudepigr,

that immense number of days are reckoned from the creation to the Caliyuga, according to BRAHMA-GUPTA's system. Mr. Davis, after reading this passage in my manuscript, kindly undertook to examine it more particularly, and I beg leave to refer to his learned note on the subject, in the appendix at the end of the essay on Vicrama and Salivahana.*

Ties that time, the extravagant numbers of the Hindus were unknown to the Greeks and Romans, with whom they kept up a constant. intercourfe. That the Hindus concealed the whole from them, is inadmissible; for it is natural to suppose, that they were equally vain with the rest of mankind. We are well acquainted with the pretention ons of the Egyptians and Chaldeans to antiquity; and furely they did not take the trouble of inventing fables to conceal them. On the contrary, MEGASTHENES, a man of no ordinary abilities, t who had spent the greatest part of his life in India, in a public character, and waswell acquainted with the chronological fystems of the Egyptians, Chaldeans and Jews, made particular inquiries into their history, and declares, according to CLEMENS of Alexandria, that the Hindus and Tews were the only people, who had a true idea of the creation of the world, and the beginning of things: and we learn from him, that the history of the Hindus did not go back above 5042 years, from the invasion of India by ALEXANDER. Manuscripts differ; some have 5042, or 6042: others have 5402 years, and three months; for he calculated even the months; but the difference is immaterial in the present case.

^{*} As. Res. v. q. p. 242.

[#] See Afiatick Refearches, vol. 5. p. 2900

This period of the Hindus was adopted afterwards by the Persians, or was common to both: and the latter reckoned, from the creation to the era of Malec-shah, in the year 1079 of Christ, 6,586 years,* that is, they placed the creation 5507 years before Christ. It appears also from George of Trebizond, that the Persians reckoned, from the flood to the year of Christ 632, or era of Yezdejird, 3,735 years, ten months, and twenty three days, conformably to the ideas of Abu-mazar: and this is again the period of the Cali-yuga of the Hindus. From Alexander's entering India, to the same era of Melice-shah, there are 1408 years, which deducted from 6,586, there remains 5178; and this I believe was originally the true reading in Megastheres's account of India. Be this as it may, the difference, relatively speaking, is not very considerable, and is immaterial in the present ease.

CHRIST was the fon of a carpenter, and himself a carpenter, or Tacshaca in Sanscrit. The Persians called him a Peishé càra, handicrastman
and tradesman. In the Calpa druma-Calicá, a treatise of the Junas, and
in my possession, Sa'la-va'hana, called by the Hindus a Tacshaca, and
said to be also the son of a Tacshaca, Tashtá or Twashtá, is declared to
have been a Sravaca or Sávaca, a tradesman: and in the western parts
of India, as in Gurjarát, all banyans and tradesmen are called Sávacas.
The words of the Calicá are, "Sa'lava'hana Nàmá Rájá Jaina;
Parama Sravaca-pati. The King called Sa'la-va hana was a Jaina,
and the lord and master of the Sravacas," or Sábacas, as more generally written and pronounced.

BAILLI'S Aftronom. Ind. p. 251.

EVEN the name of 'SA'LI-VA HAN, 'SA'LIBAN, and 'SA'LBA'N, as he is called in the spoken dialects, seems to be of Persian and Arabic origin, as well as Peisheh-car, the name of his followers. Salib, or Sulib fignifies a stake, a cross, a gibbet, the Roman Furca; like the Greek ETRUPOS, Sálib or Sálb fignifies also crucified, and in the plural form, it becomes Salub, and Salban. Ashab-al-Salib, means the Christians in Arabic, that is to fay, the followers of the crucified. The best Sanscrit expression for this is Suliva, Salava, or Salwa in a derivative form, and these are indifferently pronounced 'Salaba, or Salba, and in the plural number Sálabán, and Sálban. In the Cumáricá-c'handa, these 'Salavas, or 'Salbans, are mentioned, in the same page with 'SACA, or 'SA'LA-VA'HANA, and as existing at the time this Puran'a was written. The copy of that section of the Scanda-puran'a in my possession, was written about 230 years ago in Gurjar'at: and the writer or transcriber, well knowing, that Savaca was a title of SACA, or SA'LIVA'HANA, wrote first Savaca, instead of Saca; but recollecting himself, and finding that there was a redundant fyllable in the verse, he drew two fmall strokes with the pen across the middle syllable, showing, that it was to be left out, and the whole word to be read Saca. In the Lucknow copies of this fection, no mention is made of 'Saca, and the whole verse is omitted.

THE copies from Chitra-cûta, have the whole verse; but the name of Saca is variously written, sometimes Sacra, Sraça, &c. These readings are obviously erroneous. There were no other copies of that section at Benares but those procured from Chitra-cûta, and Lucknow, till I was lately presented with a neat copy, 230 years old, from Guja-

rat, by a Pandit of that country. The Lucknow copies are tolerably accurate, but those from Chitra-cuta are miserably mangled, through the carelessiness of transcribers. The passage relating to Saca, is in the following words. Tatah trisbu sahasréshu sate chápyadhicéshu cha; Sacó nama bhavishyas'cha yótidáridra háracah: and whether we read Saca or Savaca, it points to the same individual.

The idea that Sa'liva'hana was borne on a tree, cross, or furca, they might have borrowed from the Manicheans, who represented Christ stretched upon a tree. Váhana, báhana, and váha or báha, are nouns derived from the verb vah, veho, to carry; and used both in an active and passive sense. Thus Havya-váhana is one of the titles of Agni, or fire. Indra is called Mégha-váhana, or the cloud borne; Gand'ha-váha is the wind, from its being the vehicle of persumes. The clouds loaded with water are called Vári-váha. Thus Sál-bah, Hál-bah, Sal-báhana, &c. may signify either, he who carries his cross, or who was borne, or exalted upon the cross. Crucifer is one of the titles of Christ, persectly answering to Sála-báha.

The Hindus are very fond of forms, or emanations, which they confider to be the same with the original, from which those emanations sprang: and disciples are very often considered as so many forms of their masters. It is then very possible, that they should have considered the Apostle and disciple, who first preached the Gospel in India, as a form of Christ, or as Christ himself, after several centuries had elapsed: and thus possibly have mistaken the year of the death of the form, or disciple,

for that of his principal. Now some of the Apostles lived to a great age; St. Thomas, for instance, is supposed to have lived seventy-three years, and to have suffered martyrdom about the seventy sourth or seventy-fifth year of the Christian Era.

The year of the death of Vicrama RCA, and that of the manifestation of Sa'l-Ba'han, are acknowledged to be but one and the same: and they are obviously so. According to the Cumárica-c'han'da, that remarkable year was the 3101st of the Cali yuga, and the first of the Christian Era, thus coinciding also with the Samaritan text, which is a remarkable circumstance,

Some learned Pandits, from the western parts of India, are of opinion, that the era of Vicrama'ditya was originally reckoned from the first year of his reign, in the year 3044; and that, after a reign of fifty-six years, his death happened in the year 3101.

This was certainly the opinion of the author of the Cumaricác'han'da, and of the Pandits who affisted Abul Fazil, who says, in his summary of the history of the Kings of Málava, that Vicrama'ditya's era began the first year of his reign; and this makes this legend more consistent and probable.

In the Vrihat-Cathá, 'Sa'li-va'hana is called Nri-sinha, or the manlion, answering to the lion of the tribe of Juda; and one of the forms of Budd'ha is called Nri-sinha, both by the Pauran'ics, and the Baudd'has. 'Satti sinha, or the energetic lion, is also the name of 'Sa'liva'- HANA in the appendix to the Agni-purána. According to the Vrihat-catha, Vicrama'ditya marched, from his capital city Pátalí putra, or Patna, to wage war against Nri-sinha King of Pratisht'hana.

VI. The cross, though not an object of worship among the Baudd'has, is a favourite emblem and device with them. It is exactly the cross of the Manicheans, with leaves and flowers springing from it, and placed upon a mount Calvary, as among the Roman Catholics. They represent it various ways, but the shaft with the cross bar, and the Calvary remain the same. The tree of life and knowledge, or the Jambu tree, in their maps of the world, is always represented in the shape of a Manichean cross, eighty-four Yojanas (answering to the eighty-four years of the life of him who was exalted upon the cross) or 423 miles high, including the three steps of the Calvary.

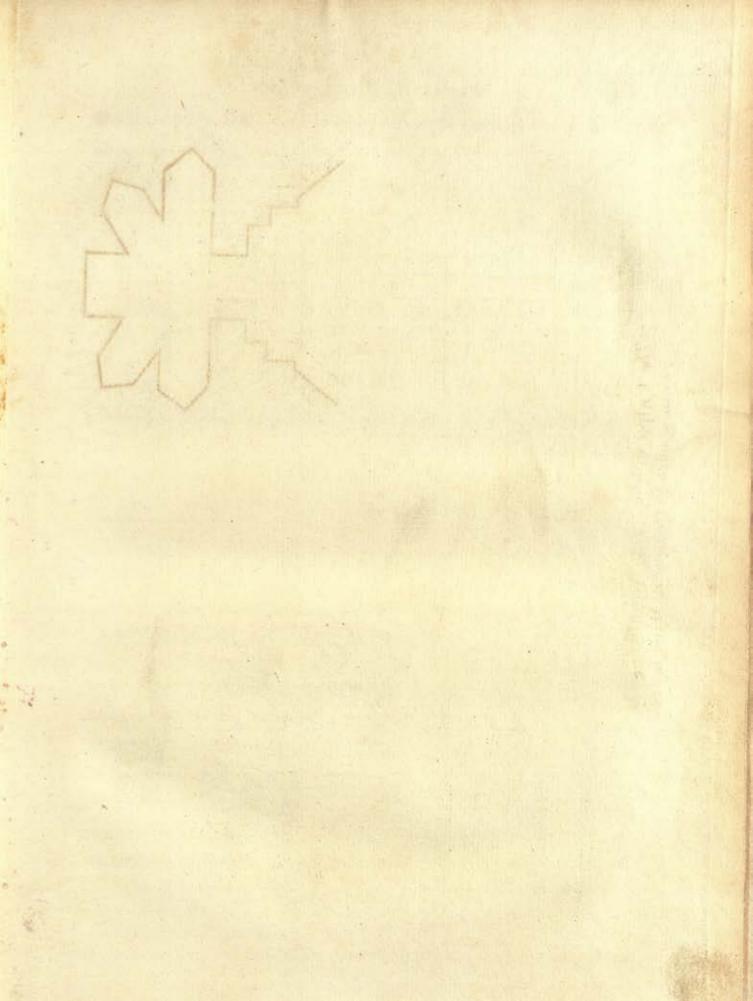
This cross, putting forth leaves and flowers, (and fruit also, as I am told) is called the divine tree, the tree of the gods, the tree of life and knowledge, and productive of whatever is good and desirable, and is placed in the terrestrial Paradise. Agapius, according to Photius*, maintained, that this divine tree, in Paradise, was Christ himself. In their delineations of the heavens, the globe of the earth is filled up with this cross and its Calvary. The divines of Tibet place it to the S. W. of Meru, towards the source of the Ganges. The Manicheans always represented Christ crucified upon a tree among the soliage. The Christians of India, and of St. Thomas, though they did not ad-

Phot. Biblioth. p. 403.

mit of images, still entertained the greatest veneration for the cross. They placed it on a Calvary, in public places, and at the meeting of cross roads; and it is said, that even the heathen Hindus in these parts, paid also great regard to it. I have annexed the drawings of two crosses, from a book entitled the Cshétra samása, lately given to me by a learned Baudd'ha, who is visiting the holy places in the countries bordering upon the Ganges.* There are various representations of this mystical symbol, which my friend the Jati, could not explain to me; but says, that the shaft, and the two arms of the cross, remain invariably the same, and that the Calvary is sometimes omitted. It becomes then a cross, with sour points, sometimes altered into a cross cramaponné, as used in heraldry.

In the second figure, there are two instruments depicted, the meaning of which my learned friend, the Jati, could not explain. Neither did he know, what they were intended to represent: but, says he, they look like two spears; and indeed they look very much like the spear and reed, often represented with the cross. The third sigure represents the same tree, but somewhat nearer to its natural shape. When it is represented as a trunk without branches, as in Japan, it is then said to be the seat of the supreme One. When two arms are added, as in our cross, the Trimurti is said to be seated there. When with five branches, the five Sugats, or grand forms of Buddha, are said to reside upon them. Be this as it may, I cannot believe the resemblance of this cross and Calvary, with the sign of our redemption, to be merely accidental. I have written this account of the progress of the Christian religion in India, with the impartiality of an historian,

Plate 2.



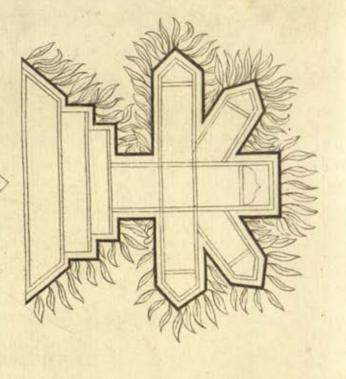
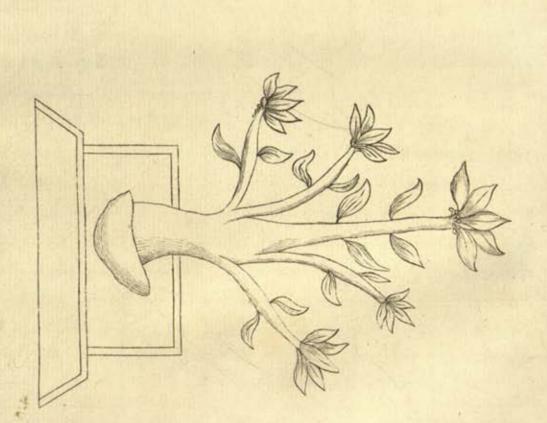


Plate I



The Calpa-vricsha of the Bauddhas which is the same with the Cross of the Manicheans

fully perfuaded, that our holy religion cannot possibly receive any ad-

The word Mléch'ha in Sanscrit, does not fignify literally a foreigner: but it is generally understood in that sense by the Pauran'ies, when announcing, in a prophetical style, the different powers who were to rule over India. Hear now, says the author of the Vishnu puran'a, hear now, what will come to pass in these times: powerful Kings among the Aryya-Mléch'has will appear; they will subvert the reigning religion, spoil and deceive the Prajás, or the people.

In the Bhagavata, they are called Abrahmavarchasah in the plural, and Abrahmavarchash in the fingular; because, as they understood not the fundamental tenets of their own religion, through their spiritual blindness, and the hardness of their hearts, they gave it up to embrace a new one.

In the Brahmanda we read, then will come the Aryya-Miech'has, who will seduce the people; they will be proud, and at the same time distrustful, as if constantly dlarmed.

In the Váyu-purána, it is declared, that generations of Kings will rise, and set like the sun. Then will come the 'Aryya-Mléch'has, who will forsake the D'harma, religious creed, Carma worship, Tírt'ha the places of pilgrimage of their ancestors; they will seduce the people with their new doctrine, and will grow worse and worse every day. After them Sarva Mléch'ha, all sorts of foreign, and impure tribes, will overrun the country.

riiam, and Abraiam, as well as their Apostle, even as low as the times of M. Polo in the 13th century. From Abaryyam, the Pauránics probably made A-Brabma, in order to shew their contempt of them, but more particularly in the latter times, when they grew worse and worse; and M. Polo speaks of some of the Abraiam, or Abramiam, nearly in the same terms. Yet in his time the denomination of Avariam, in Sanscrit Aváryyam, and Abáryyam, was applied to them; and he was told that it signified good and pious men.

I HAD, for a long time past, particularly inquired from the Baudd'has whether they knew any thing of the wars of Budd'ha with Teve-tat: but I was always answered in the negative. It was my fault in some measure; I did not make use of the other synonymous names of that enemy of the religion of Budd'ha. I mentioned before, that I supposed, that Tevetat was a corruption from De'va-Tashta, synonymous with De'va-Twashta, or De'va-Siles, the divine artist, or carpenter; who is more generally known under the name of Vis-va-carma, or the universal artist. Under this last appellation, Te've-ta't is known to them. Soon after a learned Jati presented me with a book called the Budd'ha-charitra, with leave to take a copy, in which the wars of Budd'ha, with Vis'va-carma, or De'va-Twasht'a' are related. It is a most voluminous work, and still it is incomplete, and the seat of war was in India.

^{*} In the Lalita vistara parana, which was brought by Major K. ox from Népál, the name of Budd'ba's kiniman and rival is De'vadatta (answering to Deodatus). It is probable, that LALOUBERE'S Tevetat is a corruption of the name of De'yadatta. H. T. C.

milition of to a ESSAYIVE RESIDENT MINING SALE

PART I.—CHAPTER I.

one in the N. W. and the other in the S. E. quarters of the Old Continent.

I. I RI-CU'T'A'DRI, the mountain (Adri) with three peaks (Tri-Cuta,) answers to Τρικορυφος, and Τρινακριος in Greek: for in that language άκρου fignifies properly a peak, fummit, and implicitly a headland, or promontory. Poly Enus calls Mount Meru or Meros, Tri-coryphus: it is true, that he bestows improperly that epithet on Mount Meru near Cabul, which is inadmissible. Meru, with its three peaks on the summit, and its feven steps, includes and encompasses really the whole world, according to the notions of the Hindus, and other nations, previously to their being acquainted with the globular shape of the earth. I mentioned in the first part, that the Jews were acquainted with the feven stages, Zones or Dwipas of the Hindas: but I have fince difcovered a curious passage from the Zohar-Manasse on the creation, as cited by BASNAGE in his history of the Jews. "There are," says the author, "feven earths, whereof one is higher than the other; for the holy-land is fituated upon the highest earth, and Mount Moriah (or Meru) is in the middle of that holy land. This is the hill of God, fo often mentioned in the old Testament, the mount of the congregation,

See English Translation, p. 247.

where the mighty King sits in the sides of the north, according to Isatah, and there is the city of our God."* The Méru of the Hindus has the name of Sabhá or the congregation, and the gods are seated upon it in the sides of the north. There is the holy city of Brahmá-puri, where resides Brahmá with his court, in the most pure and holy land of Ilávratta.

Date Menu is the wordly temple of the supreme being, in an embodied state, and of the Tri-Mu'rti or sacred Triad, which resides on its summit, either in a single, or three-fold temple, or rather in both: for it is all one, as they are one and three. They are three, only with regard to men involved in the gloom of worldly illusion: but to men, who have emerged out of it, they are but one: and their three-fold temple, and mountain with its three peaks, become one equally. Mythologists in the west called the world, or Meru with his appendages, the temple of God, according to Macrobius.

HENCE this most sacred temple of the supreme being, is generally typissed by a cone or pyramid, with either a single chapel on its summit, or with three; either with, or without steps.

This worldly temple is also considered, by the followers of BubD'HA, as the tomb of the son of the spirit of heaven, whom I conceive
to be the first man, re-emerging in every Calpa, or the first lawgiver,
often confounded with the first man. His bones, or limbs, were scat-

Eigliffe Translation; fl. 117-

^{*} ISAIAH C. 14. v. 13. pfalm 48, &c.

TER ZAGREUS. To collect them was the first duty of his descendants and followers, and then to entomb them. Out of filial piety, the remembrance of this mournful search was yearly kept up, by a fictitious one, with all possible marks of grief and sorrow, till a priest came and announced, that the sacred relics were at last sound. This is practifed to this day by several Tartarian tribes of the religion of Budd'ha; and the expression of the bones of the son of the spirit of heaven is peculiar to the Chinese, and some tribes in Tartary.

THE Baudd'hists in this country are so close, reserved and ignorant, in general, that hardly any information can be obtained on this fubject. Besides, they acknowledge, that it is so awful a theme, that they really avoid to make it the subject of conversation. They confess, that the pyramids, in which the facred relics are deposited, be their shape what it will, are an imitation of the worldly temple of the supreme being, and which is really the tomb of the first of his embodied forms; or of his fon, in the language of the Chinese, Tartars and of the Greeks also, who were little acquainted with the system of emanations, and incarnations. They also declare, that many of these pyramids do not really contain the bones of the Thacur, or Lord: and though they are to be supposed, and afferted to contain them, the real place, where they are deposited, should remain unknown; in order to prevent profanation; exactly like the various tombs of Osiris. For this reason, the sacred -relics, instead of being deposited in the pyramid, are always placed in a small vault deep under ground, at some distance from it, as at Sar-As Res ve. natha near Benares.

This monument is about fifty feet high, of a cylindrical form, with its top shaped like a dome. Similar monuments, but never more than three or four feet high, are often erected, by Hindus, upon the spot, where a married woman burned herself with her husband. These monuments are in general called Sati; and the enormous one at Sarnath is a fort of Sati over the bones of Budd'HA. According to tradition, it was erected over the ashes of those, who fell there in battle, in the invalion of the Muslemans. But this is impossible; as this monument is the chief and principal piece of that facred fabric, which was begun many years before the faid invasion. The only part that was finished is the tomb of Budd'HA: all the others, which were intended for the splendor of the place, and the convenience of the royal inhabitants, and priefts, remaining in an unfinished state. The secret vault, into which these relics are deposited, in general, is called the Thacur's Cuti, the room or cell of the Lord; and in the inscription found amongst the ruins above this cell, it is declared that ST'HIRAPA'-LA and VASANTA, sons of a King of Gaur in Bengal, built this Cuti. It follows from hence, that these were the persons, who deposited there the Thacur's bones. In the above inscription it is declared, that this happened in the year of VICRAMA DITTA 1083, or of our lord either 1017 or 1027.* In the inscription found at Islamabad, these relics, confisting of a few bones, are said to have been deposited in tw brass vessels in a Cuti, or room under ground. In the account of the disco-

tale trAs. Res. v. 5. p. 133. lib smol te bunong naban nach ilune flech a.

^{\$} As. Res. v. 2.

very of two urns at Sarnatha, it is mentioned that the Cuti was eighteen cubits or twenty-seven feet, under ground.* There the relics were depofited, in an urn, enclosed in a vessel of marble, in the shape, and of the fize of the famous Barberini monument. There were a few bones only, with various trinkets, which confifted of pieces of coloured glass, all of them perforated, with thin leaves of gold, and some coarse pearls. These ornaments are by no means a proof that these bones were those of a female. It is more probable, that they formed a chaplet used by devout people, or rolaries and bracelets, with which the statues of Bun-D'HA are generally decorated. The marble veffel, which contained the urn, is more highly finished than that of the Barberini monument. The urn itself is of a more elegant form than that in the above monument. It is in the shape and of the fize of a chalice; it has no carved figures, but elegant mouldings, exquifitely finished, and is of green marble. I suspect the whole to be of foreign workmanship: for it is totally different, both in shape and workmanship, from vases in use among the Hindus, either at this day or in former times. PHILOS-TRATUS informs us, that statues, by Grecian artists, were by no means uncommon in the N. W. parts of India. STRABO fays also, that altars of Grecian workmanship were often found in the western parts of India; and ARRYAN, in his Periplus, takes notice of altars, and of small temples in the Grecian talte, near Barygaza or Baroach. The practice of thus preserving the bones of Budd'HA is of great antiquity; for it is expressly mentioned by CLEMENS of Alexandria, who says that they

^{*} As. Res. vol. v. p. 13t. Do bazilor artificial agent vibiano unit do

were deposited under a pyramid. In the history of China, we read, that in the year 335, a bone of Fo was sent from India to the Emperor of that country, who was highly pleased with this precious relic: though his minister Hanyu made a very spirited remonstrance against this innovation; and which is to be found in Du Halde's China.

THE followers of BRAHMA' are not addicted to the worship of dead men's bones, and I know but one instance to the contrary. At Jagan-nátha they have a bone of CRISHNA, which is considered as a most precious and venerable relic; so much so that few people are allowed to see it: and Hindus are not fond of making it the subject of conversation, any more than the Baudd'has.

The shape of these monuments is always, either that of a pyramid, or of a cone, with some trisling deviations occasionally. Thus, the cone assumes the shape of a trump-roof: sometimes it is formed by the revolution of a cymatium, or Ogive round an axis: and these two some are generally said to be in the shape of a bell. Mount Meru, and the seven stories, are represented in the shape of a trump, by the divines of Ceylon, according to Mr. Joinville's delineation in the seventh volume of the Asiatick Researches. The pyramid is equally subject to the same variations, the hips, or angles being sometimes in the shape of a cymatium. As Mount Méru is also represented of a cylindrical form, the tombs of the Thácur are equally made in that shape, as that of Sárnátha. Sacrisices and offerings are never made in Tibet, without placing before the devotees a cone or pyramid, the image of Méru and of the worldly Linga. Bráhmens, instead of either, make a cylinder

of earth, and for the same purpose. This they call the primeval Linga; which was represented in the west, and to this day in the Dekhin, by a cone, according to Arnobius and other authors.

THE steps, stories, and retreats are always omitted in India: but I was told, that it was confidered as immaterial. The feven stories, however, are marked by lines, in a delineation of the worldly temple and tomb of Budden, in a large map of the world accompanying the Cshetra-samasa, a geographical treatife in my possession. This representation of the mountain of Gon struck me forcibly, and was the occasion of further inquiries into this subject. It is of the fame shape with the pyramids of Egypt: the base only is a little fhorter, with a small flat top, with a chapel in honor of Bun-D'HA. The sides are smooth, as in the pyramids, but the seven stories are represented by lines; which brings it still nearer to the tower of Babel. The pyramids of Egypt are not all alike: some are in the shape of a cone; one with recesses is mentioned by DE NON; who notices also another with a circular base. The square base of this worldly temple is peculiar to the Baudd'hists of Tibet: for in India the Brahmens, and the Jainas, always give it a circular form. In the representation of it in the Csbetra-samasa, it is a square. Though the dimensions are much neglected, yet in all these monuments at Benares, the most modern, and of course most perfect, are of a conical figure; the perpendicular fection of which, through the center, is an equilateral triangle. There is always a small temple on the summit, except one near Benans, at a place called Campwy. Such of these monuments as belong to the Baudd'has are called the temples of Budd'has they might also be called the temples of Bala or Balas, one of the titles of Budd'ha; but little known now, and more particularly so to the vulgar. The word Balas, properly pronounced, sounds exactly like Belos in Greek, and Belus in Latin. May we not then reasonably suppose, that the temple and tomb of Belus at Babylon, was precisely a similar monument; and calculated for the very same purpose.

On the fummit of it was a chapel, dedicated to Belus, according to HERODOTUS. DIODORUS the Sicilian fays there were three; but this is immaterial: for BALAS is three and one. Befides, the temple of HERODOTUS probably confifted of three chapels. About the center of the tower, in the middle, was the tomb of BALAS, and near it, in the body of the pyramid also, another chapel, exactly as in the great pyramid at Giza in Egypt. It is probable however, that the bones of BELUS were not deposited in the ostensible tomb, but were concealed, in a secret vault, in some other part of the pyramid or tower. It appears then, that the pyramids were fimilar fabrics, and intended for the very same purpose. For the Egyptians, the Phenicians likewise, had their Bz-LUS, as well as the Babylonians and Hindus: and this Belus, it is probable, was orginally the fame through these different countries. In the eastern parts of Bengal, particularly toward the Sunderbunds, there is, almost in every village, a representation of this worldly temple, of earth with fleps. The whole is neatly plastered, with a whitish clay: and, on flated feltivals, the flatue of some favourite deity is placed on the summit, in a small, but handsome portable temple. Some of these sabrics are from five to twenty seet high; according to the circumstances and zeal of the villagers. These are considered as a representation of mount Méru; and, in the inscription of Sárnáth, the conical mount, near the sacred repository, is called Méru.

LIKE all the temples and tombs of BELUS in India, the pyramids had no opening whatever, except one or two. It is however pretty certain, that all the pyramids were not intended for the reception of the bones of Belus. Many were probably intended for the burial of a very few exalted and facred characters, like the grand Lamas of Tibet, with a few . others, who are always buried under pyramids: but thefe are acknowledged to be forms of Budd'HA, though of an inferior rank. As the Egyptians concealed, most carefully, the real place, where their Belus was entombed; it is not unlikely that the great pyramid was only an oftenfible one, and of course allowed to remain open. For we are told, that the body of him, for whom it was intended, never was deposited there, or if deposited, it was not into the ostensible tomb, but into some fecret place under the pyramid. The limbs of Osiris were buried feparately, and on the very spot where Isis found them: and he was torn into fourteen pieces; others faid fix and twenty. The general opinion is, that Isis collected all the limbs in a coffin, like which the made many others, and presented them to several cities through Egypt; affuring prid vately every one, that they peffeffed the real one. It is supposed, that Osiris was entombed near Memphis, though the spot never was known.

THE tower of Babel feems then to have been the worldly temple of

the spirit of heaven, and the tomb of his son, either the first man of the Calpa, or the most ancient king and legislator of the country.

THERE were four Adams, and four Budd'has also; and we are now under the fourth, according to the traditions of the Muslemans, and of the Baudd'has. Adam's body was, at his own request, entombed, in a cave or yault, called Alconuz, in a mountain in the center of the world; and of course the Méru of the Hindus, and represented by artificial hills, either of stone or earth, and of various shapes, like Méru.

His descendants removed to that holy mountain; the wicked offspring of Cain were allowed only to dwell at the foot of it; whilft that of Seth were seated higher up, as far as the top; where they lived in great sanctity, and purity of manners, every day worshipping God on the summit of the mountain, and visiting the body of Adam in his vault, as the means of procuring the divine blessing.* This mountain, in the center of the earth, with seven steps or stories, or mount Meru, was really the mountain of God, the worldly temple of the spirit of heaven, and the tomb of his son. Colntus of Smyrna, says, that this holy mountain was depicted upon the shield of Achilles; and that on its summit resided the efficacy of Sacti of the world, or of the supreme being, towering to the skies: and he adds, that this most facred place was very difficult of access.

THE limbs, or bones, of this fon of the spirit of heaven, Puencu in Chinese, Budd'ha, Osiris, Dionysius or Adam, were dispersed all over

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the world. ADAM's remains, after the flood, were divided among his posterity, and his soull fell to the share of SHEM, who deposited it in a vault on mount Calvary, near the holy hill of Moriah or Morch. The inhabitants of Ceylon showed formerly one of his teeth; and they have now one of his tulks: for their last ADAM, or BUDD'HA, was incarnate in the shape of an elephant; and ascended into heaven, from the summit of the peak of ADAM. Muslemans, who were fettled in the Peninsula, and in that island, at a very early period, concluded, and not without some plaufible ground, that this Budd'HA must have been ADAM: and accordingly, Persian writers gravely inform us, that ADAM was banished to Ceylon, and thence translated into heaven, from the fummit of the peak, which was denominated after him. ZARADES, ZOROADES OF ZARAT was the name given, by the Chaldeans, to the eldest ZOROASTER, claimed equally by the Persians. Some fay that BELUS taught the Chaldeans astronomy, whilst others infist, that it was ZARADES or ZOROASTER, whom feveral learned men confider as the fame with MIZRAIM, the fon of HAM. Be this as it may, the eldest ZARADES was the son of OROMA-ZES, the spirit of heaven, according to Suidas. Like ADAM, he directed that his bones should be carefully preserved: his precepts for a long time were complied with; and his relics, carefully and fecretly entombed, like those of BALA or BUDD'HA, like the limbs of OSIRIS, and like those of BACCHUS at Delphi, became an object of worship. The eldest ZOROASTER, called ZARADES, ZOROADES and ZARATES by the Chaldeans, is probably the same with BELUS and the SAURID of Arabian writers: and the Goddess ZARETIS was probably his confort. Several learned oriental writers infift that ZOROADES, or ZOROASTER affifted

ZOHAC OF NIMROD, and that under the name of SAURID he built the great pyramid in Egypt. The Parsis in India say, that he was a native of China; but I suppose that they originally meant Bastria, seemingly the native country of the Chinas, according to the Paránias, and the earliest Persian and Arabian authors, who say that formerly the country about Samurcand was called Chinistan, and its inhabitants Chinas.*

II. The three peaks of Meru are, one of gold, the other of filver, and the third of iron, stone or earth, which is considered as the same. Thus, the iron age is generally called the age of stone or earth in India. In the west, mankind was produced from stones, thrown by Deucalion and Pyrrha behind their backs, in the beginning of the iron age; and from them sprang the present stony or stone-hearted race.

In confequence of this, some powerful princes are declared, in the Puran'as, and other books, to have erected three mountains, of gold, silver and stone; or three pyramids or conical hills, like the three peaks of Méru, though the materials, they were built with, were only stone or clay. Poly Enus has given us the names of these three peaks, Menon, Candaské and Corasibé; which, however distorted, and dissigured, may be still traced back to their original standard. For this purpose let us suppose, that a traveller asked a Hindu the names of these three peaks, the Hindu probably answered Mana, Cun'thác'hya, Cailásópi, or literally in English, Mana, Cun'thá' thus called, Caila's a also. The first peak, it is

[•] D'HERBELOT'S Biblioth. Orient. voce Tarikh and Tabari. Sir W. Ouseley's Translat.

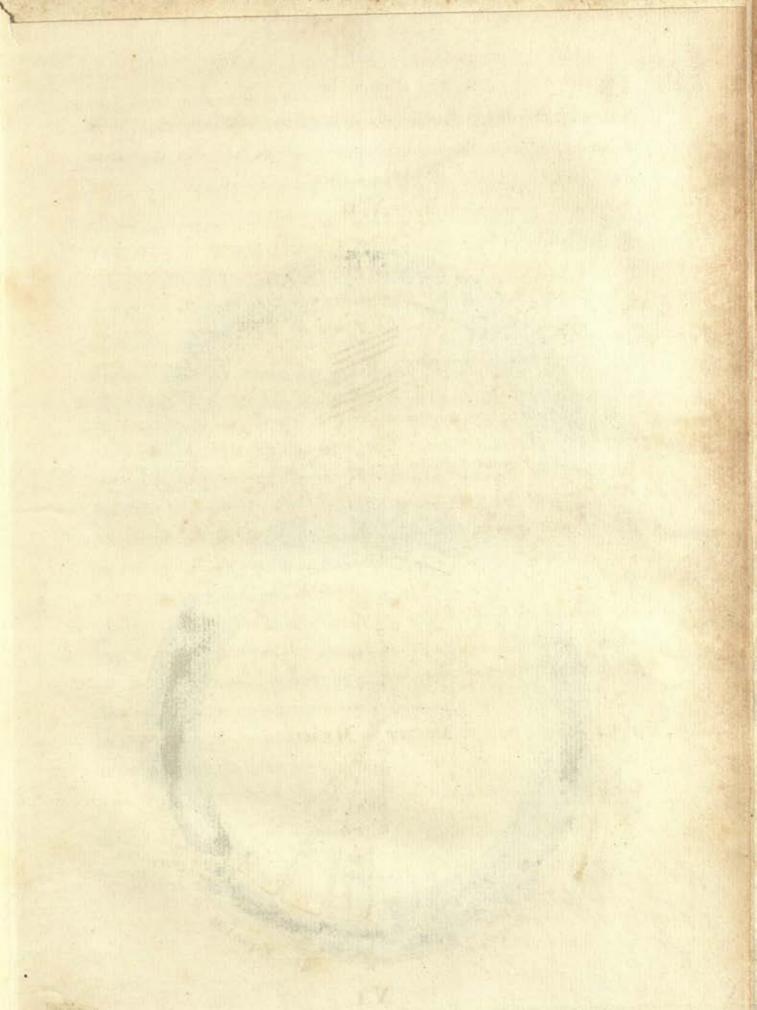
true, is not known under that name; but it is described as such, and this appears to be its real name. Upon it BRAHMA' refides, and his feat is called Brahma buri, or the town of BRAHMA: it is also Mana puri the town of Mana, or of his heart, or the delight of his heart, near the famous lake of Mina or Manasa, the waters of which, proceeding from heaven, are the delight of his heart likewife. They are otherwife faid to proceed from his heart, and indeed every thing there is from his heart. The obvious meaning of Mana is mind (mens,) but it is always rendered here heart, because the mind proceeds from the heart, according to the Hindus, who even are able to trace its track through the body to the head. The radical name of Vai-Cun't ha is Cun't ha an idiot. The name of VISHNU's mother in one of his incarnations, during the fifth Manwantara, was Cun'T'HA' or the idiot; and as the was very much fo, the was called VI Cun'T'HA', VISHNU, fince that time, is furnamed VAI-CUN'T'HA: and after him, the peak on which he resides is denominated likewise. In Cailásópi, api fignifies alfo. This Tri cú tádri, or mountain with three summits, is declared to be the lord of mountains; and of course the other Tri-coryphean hills, for there are many, are confidered as inferior to it. The next in rank is the three-peak-land in the N. W. emphatically called the WHITE island, the island of the Moon, a celestial earth or region, a terrestrial heaven or paradise.

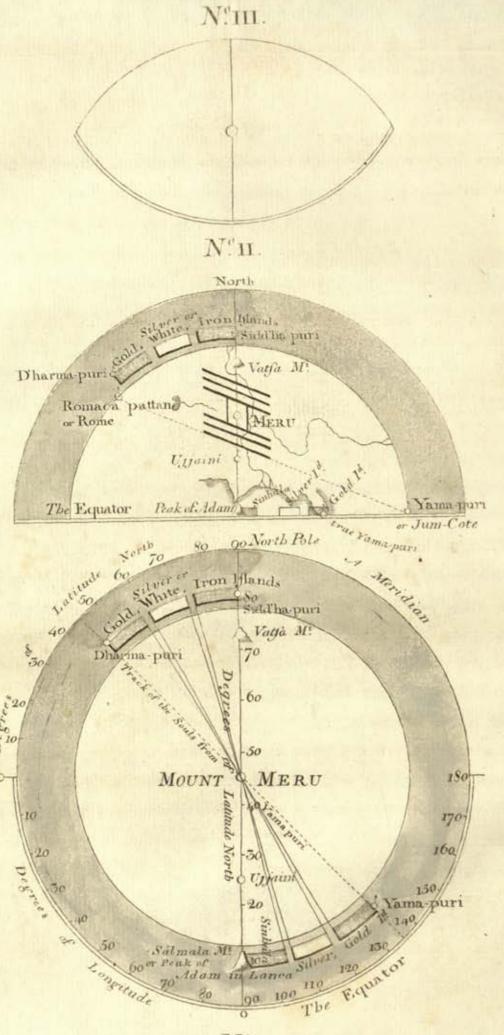
The next to this is the Tri cûta mountain in the fouth-east, including the peninsula of Málácá, Sumátrá and Ceylon. These two Tri cútádris are declared to correspond to each other, in their respection orters, and their Téja, Cirnína, or splendor, are the constant theme of the Pauránics, and other Hindu writers. These two Tri cûtas, or peak-

lands may probably be the two islands of Cerne, east and west, of the ancients. When speaking in general terms, the Pauranies sometimes place them, one in the east, and the other in the west. But numerous and explicit passages show, that they are situated in the N. W. and S. E. quarters of the old continent. There are however fome few passages, which place them north and fouth of Méru; and Lancá is now confidered as fituated on the equator, exactly to the fouth of Ujjayini, Meru, and opposite to the island of the moon. The last assigned situation was the first I hit upon, on my first acquaintance with the Puran'as, and perplexed me very much; as the Pandits, I was acquainted with, infifted that the WHITE island, one of the peaks of the western Tricuta, was in the N. W. quarter, that is to fay, it occupied the whole space between the N. W. and N. points: and that likewise the eastern Tri-cuta'dri was between the S. and S. E. points. -Unfortunately, they could not then produce the necessary vouchers from their facred books; but in the mean time, they exhibited the accompanying map of Jambu, in order to illustrate the subject:

In the plate, the map of Jambu is represented under three different projections. The first is according to the ideas of the Paurán'ics, in which one half of the equator is obviously combined with another half of the meridian, on the plain of which the map is projected. I have marked the degrees of longitude upon the equator, and the degrees of latitude north, upon an arch of the first meridian. No notice is ever taken of these particulars by the Paurán'ics; but a little ressection will

rdality, and other Hinds weiters. Their two Trigations, on tall Squake.





flow the original defign of this diagram, though the projection be ever fo disfigured.*

The true projection of it should be in the shape of what the ancients called the bottom part of a sling: and this was admitted by Dionysius Periegeres. Positionius before him admitted of it also: but he institled, that the greatest length of this projection was in a north and south direction. This fort of projection is represented in the third number of the same plate. Number II. represents the same portion of the globe, that is to say the northern part of the old continent, as projected in the usual form, upon the plain of the sirst meridian.

In the first and second numbers, the two Tri-cútadris, or islands, abounding with Cirn'n'a or respleadence, are represented diametrically opposite, with all due symmetrical arrangement in every part, to which the Hindus will always sacrifice truth. There are, however, some general outlines, which are strictly true. There are really three islands, or dwipas in the south east, and as many in the north west quarter of the old continent, corresponding exactly, or nearly so, to each other; and they have also the same names. The rest of the superstructure owes its origin, to the fertile and inventive genius of the Hindus. The idea however is by no means a modern one; nor was it confined to India: for ancient writers in the west acknowledged two islands, called Cerne, one in the east, and the other in the west: the latter, called also Cyrene, was placed near the straits of Hercules; and was said to consist equally of

Thos brevery sur-

[.] Plate III.

three islands. The eastern Cerne, it is true was said to be near the eastern shores of Africa. This mistaken notion arose, through the information of the Hindus, who will have it that the dwipa of Lanca really joins the shores of Sanc'ha, Zeng or Africa. The Nubian geographer adopted this idea, as well as Arabian writers in general.

THE Gods are represented as travelling from one Tri-cû'ta to the other; and the grand depot for souls after death, is at Yama-puri, in the Peninsula of Malacá; from which, on certain days fixed for that purpose, they set off together for D'harma-puri in the north west, which they reach after a painful march of twelve months.

THESE three islands in the south east, are in general called Lanea; and in every one of them is supposed to be a city called a Lanca puri, and there is actually a place of that name in Sumatra, according to Mr. Marsden. The walls of these three cities are of the same metal with the soil of their respective islands: of course the walls and palaces of Lanca puri in the Gold-Island, are of that metal; and of silver in the Silver-Island. In the island of iron, brass, stone or clay, the walls are of these materials: but more generally they are said to be either of iron or brass. The Gold Island, or Suvarn'a, is also called Maha-Lanca and Ma-Lanca; from which is probably derived its modern name of Malaca; which is also called Malachya in the Dévi puran'a.

THESE islands were well known to the ancients, under the appellations of Chryse, Argyrea, and Taprobané. That of Taprobané, though generally understood of Ceylon, was also extended to the three islands; for

STEPHANUS Of Byzantium fays, that Argyrea, the Silver Island or Sumatra, made part of Taprobané and very properly too: for Taprobané is obviously derived from the Hindi Tapu-Ravana, the island, or islands of Ra'vana, who was the lord of them, and whose name, in the spoken dialects, particularly in the Dekhin, is always pronounced Ra'ban. Their Sanscrit names are Canchana or the Gold Island; Rajata the silver one, and Sinhala is Ceylon. On the latter the epithet of Iron Island is never bestowed in any book which I have seen: but it is understood as a matter of course: it was called also the brass country by Ptolemy, though strangely misplaced by him.

FROM various documents, through different channels, he has introduced twice in his map of that country, this Tri cûtâdri, first as three islands or Peninsulas, and also as three countries on the mainland, under the names of gold, filver and brass countries. Mr. Danville has proved, that the Peninsula of Malâcâ, with most of the places belonging to it, are twice repeated, and made contiguous by him.

In the Gold Island, or Má-Lancá, is the abode of Yama, called Yamapuri, or in the spoken dialects Jam-cote, a place well known to Arabian
and Persian writers. It is also called Lancá-purí, Lancá-nagara, the
town of Lancá; and the straits of Málácá are called, in the Purán'as
Lancá-dwára, or the gates of Lancá* as we shall see in the course of this
work. Canca is another name of Yama or Pluto; and as the place
of his abode is in Málancá, according to the Purán'as, the Lancá-dwára

[·] Scanda-purana, fection of TAPI-C'HAND'A.

or gates of Lanca, the straits of Malaca might be called also with propriety the gates of Canca, Pluto or Canca-dwara. This denomination is never used now by the Pauranies; but there is no doubt, that it was so fo formerly: for the Cancador of Ali-Coshgi, and other early Musleman writers, is obviously derived from Canca-dwara, Canca's door or gate. It is true, that they make a town of it, which they call also more correctly Cancanor for Canca-núr, which last is acknowledged to be the same with Canca nagara, the town of Canca: and in the Dekhin they always say nur or nuru, instead of nagar. This town is obviously the same, which is called Cocco-nagara or Conco-nagara by Prolemy. The country of Canca is Cancadesa in Sanscrit; hence Musleman writers call it also Gung-diz.

Cancapuri or Canca nagara is then the same with Yama-puri or Jumcote, called also in the Purán'as Maha-Lancá puri, or Má-Lancá: and it is probably the same with that called Balanca by PTOLEMY, and placed by him in Long. 1620 and in 40 40' Lat. North. It appears however, that Musleman writers understood by it the town of Saba, or Zaba: for Yama-puri or Jam-cote is a mythological city and never existed.

WE observed before that Prolemy has introduced into his map the golden country, island or peninsula, not only twice; but that he has likewise introduced twice, most of the places belonging to that country. Accordingly Conco nagara is again noticed under the name of Coccoronagara, or Cocconagara; from which Musleman writers have made Canacor for Canca-rai-ghur, the house or place of abode of Canca-rai-ghur, the house or place of abode of Canca-rai-ghur. This town

they call also Canacor, which is some place in the Gangetic provinces: but I have shown before, that Canacor or Cancar was the capital city of the country of Gancar deha, or of the Gangaridae in Bengal.

Jum-cote or Lanca-puri, which D'HERBELOT writes Giamcout, they place, with the Hindus, in the center of the Peninsula, in five degrees of Lat. North, and in Long. 176 or 175, according to ABUL FAZIL and others; and Procemy places Balonca, or Má-Lanca-puri in Lat. 40 40 North, and in Long. 162. The longitude of Lanca or Ma-Lanca may be afcertained from the Puran'as; a circumstance very unusual. Yama. puri is declared in these facred books to be the general rendezvous of the departed from all parts of the world, and from which they proceed in a body, with a proper guard, composed of the servants of YAMA, to D'harma-puri, which I shall show hereafter to be the purgatory of Sr. PATRICK in Hiran'ya or Suvarn'eya, the gold island in the west. The days and diffances are accurately described, which summed up amount to 81,554 Yojanas.* The breadth of the world is 100,000 Yojanas, equal to 1800 of longitude: and these 81,554 Yojanas answer of course to 1460 48, which subtracted from 180 degrees, leave 33; the half of which 160 30' is the longitude of Dharma-puri, and added to 1460 50' will place Ma-Lanca or Jum-cote in long. 1620' 20'. For these two places are at the furthermost extremities of the earth, which forms a perfect circle, furrounded by a fea, every where of the same breadth, This fingular route of the departed will be the subject of a separate paragraph. It passes through India, in the direction of the first range of

^{*} Gan'es'a Purán'a.

fnowy mountains. The Pandits, whom ABUL-FAZIL confulted, placed Cancador 1265 Yojanas from Lancá, or the peak of ADAM, which is in 900 of longitude, according to them. Yama-puri is accordingly 12053 Yojanas from Lancá; some reckon 1242, which will place, Yama-puri in long. 1780 22',

THE commentator on the Súrya-Sidd'hánta, has reduced that distance very much; for he says that Lancá, or the three islands, occupy a space of 30 degrees along the equator; and this will bring their assumed longitude of the easternmost shores of Má-Lancá nearer to its real one.

As Ptolemy places Má-Lancá-puri in the same longitude with the Pauranics, he must have used the same data, and which he had probably received from the Hindus whom he conversed with at Alexandria, Má Lancá being, according to the Puránics, in the center of the Peninsula, it must be of course in about five degrees of Latitude North; and there it is placed by Abul-Fazil; and in 40 20 by Ptolemy, Málancá is called in the Puránás Yamala and Malaya; which last denomination it still retains. It is styled also Canchana-páda, or with the golden skirts. It may be translated the country of the golden seet, a title assumed by the Emperors of Ava, and other Kings of that part of the world; and the Malayan breeze is as samous in the east, as the Sabæan in the west; and its capital was also called Saba, or Zaba,

In the beginning of the Brahmánda-purán'a, it is declared, that the strong hold of Yama in Tri-cúta, that is to say the Peninsula of Malaca, is 100 Yojanas long, and 30 broad, which is sufficiently accurate,

Procent mentions there a place called Malaiou-colon, probably from the Sanscrit Malaya-cúlam, which implies a place on the borders or thores of Malaya: the same is called Maletur by Marco-Polo; Malaya-tír and Malaya-cúlam are synonymous. Peri-mula in Procent, I suppose to be derived from the Sanscrit Pari-Malaya, which implies the same thing. For it is probable, that they were acquainted only with the tíram, tír or culam of the Peninsula; and Canchana-pada may also signify the foot, skirts of the golden mountain, or Peninsula.

The next island is Sumatra, ealled in the Pura'n'as Rajata, or silver island, the Argyre of the western geographers. In the Vrihat-catha it is called Naircela or Nalicera and Srimat, or the fortunate, and synonymous with Srimatra.

THAT samous island is called now Sumatra, and by former European travellers Symotta. In the same book, and in the Hitopades'a, it is called Carpura, or camphire island. In the spoken dialects, that word is pronounced Ca'pur and Ca'fur, Marco Polo gives the name of Fanfur to one of its provinces, probably for Canfur or Campar as it is now called. A beautiful lake on the island, is mentioned in the Hitopades'a, under the name of Padma'-nilaya or the abode of Padma'-De'vi.

It is also called Mandara in the Pura'n'as; and, as it is represented as a most delightful country, it may be denominated Su-Mandara; and it was called Samander by sormer geographers. But it seems, that this appellation is derived from Samander in the spoken dialects of India, from the Sanscrit Samudra, which signifies the ocean. The author of the Periplus mentions an island near the Ganges called Oceanis; and EL-EDRISSI says that the island of Samandar is near the Ganges. Probably the

author of the Periplus confounded it with Sagara island, a name of the same import, at the mouth of the Ganges and called also Oceanis by Diodorus the Sicilian: The context, however, of this author, and of more modern geographers, show that it cannot be the same island. Salmasius and others improperly laugh at the idea of an island at seabeing called Oceanis. This Oceanis was probably the place of abode of old Samudra, the old man of the sea, often mentioned in romances in the east.

The words Samudra, or Samundur, are pronounced Sumundu and Mundu in the dialects of Ceylon; and there is an island of that name mentioned by ancient geographers in the eastern seas, and supposed by them to be the same with Taprobane or Ceylon; but Stephanus of Byzantium says that the silver island made part of Taprobane, which is really the case. It is also called by them Palai-Simundu, which I take to be a corruption from Pulo-Simundu, Pulo-Symotta, the island of Simundu, or Symotta. The description of that island, under the name of Simondu, does by no means agree with Geylon; but is easily reconciled with Sumatra, though we know but little of the interior parts.

The large lake called Megisba, with the metropolis, does not exist in Ceylon, but is probably that extensive lake to the south of Menang-cabow, mentioned by Mr. Marsden in his map of Sumatra, from which several large rivers seem to issue. The harbour of Hippuros, or Ipporus in Pulo-Simundu is called Aypoor by Danville, and Ippu by Mr. Marsden from the Sanscrit and Hindi I-pura or I-pu, and in a derivative form Ai-pura, the town of the goddess I or Bhava'ni. From this lake issues the river Andraguerii or Indergerce, in Sanscrit

Indra-giri; because its source is in the giri, or mountain of Indra, or Maghabá; from whom probably the lake in the plains below was denominated Maghabá or Megisbá, according to Pliny, and Padmanilaya or the place of abode of Padma'-de'vi the consort of Vishnu, in the Hitopades'a.

FROM this lake iffued two rivers, according to PLINY; one called Palesimundus flowed towards the fouth, and towards a town of the fame name (perhaps the modern Palembang) which was the metropolis of the island, and had a famous harbour. The river divided then into three streams, the smallest of which was five furlongs broad, and the largest two miles nearly. Thus I translate this passage of PLINY; for it is impossible that three such large arms of a river should fall into a harbour. According to Mr. MARSDEN, this lake communicates with the river of Palembang: for, says he, the inhabitants avail themselves of this lake in transporting their goods to, and from Palembang.*

The other river, toward the north, and supposed to issue from that lake, was called Cydara; probably because it slowed through the country of Ru or Aru, called Daru by sormer European travellers: the capital of which, on its banks, was probably called Cota-Ru, or the town and fort of Ru. This is the largest river in the island, and of course its source far remote into the interior parts of the country. The river Siac seems to be a branch of it: and the Campar is supposed to communicate with the river Indra-giri. Opposite to this, toward the west, another river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river slows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Ananother river flows from the mountains of Indra giri, and is called Indra giri, and is called

to Pathballen, The inhabitants, fays has been play in which her et

drapour or Indrapour from the Sanscrit Indra-pura: and I believe that the town is the same which is called Andra-Simundu by Procemy, and foifted into Ceylon by him, on a supposition that it was the same island with Pulo-Simundu; and I believe that this is not the only place in Taprobane, that belongs to Pulo-Simundus. The mountains of In-DRA, or Maghaba in the island of Sumatra, are mentioned in the Vrihat-cat'ha, under the name of Balahaca, which is fynonymous with Megha, from its fummit being capped with clouds; and INDRA, who presides over rain, resides above the clouds: hence he is called Me'g-HAVA'HANA, ME'GHA-BA'HANA, and in conversation Me'GHABA'N, or the cloud borne. The other mountains in Sumatra, mentioned in the Vrihat-cathá, are Mináca Vrishabha, and Chacra. Upon these sour mountains, as many gods are, in the fame book, declared to relide, and to travel occasionally in their felf-moving cars to the White Island in the west, in order to pay their respects to VISHNU, and his consort ABD-HITANAYA', or the daughter of the Ocean. Naricela, another namefor this island, implies its abounding with cocoa-nut trees, the leaves of which being agitated by the winds strike against each other, and feem to repeat the words Boc-boc or Vac vac: or the continual noise which they make is compared by the Hindus to what is called in Hindi Boc-boc or constant chattering. Sumatra is then the island of Boc-boc, Vac-vac or Wac-wac of Arabian authors; who fay that the leaves of these trees striking against each other feem to repeat the word Wac.

SUMATRA appears to me to be the same island, in which JAMBU-Lus is supposed to have resided seven years, and from which he went to Palibothra. The inhabitants, says he, have two tongues, or lan-

guages; their own first; and probably the Malay was the other, which they spoke fluently, but I suppose only in the districts bordering upon the sea. JAMBULUS takes notice, that this island abounded with hot springs, which is true of Sumatra, but not of Ceylon. They had also an alphabet, confilling of twenty-eight letters, divided into feven classes, each of four letters. There were seven original characters, which, after undergoing four different variations each, conflituted these feven classes. They wrote also from top to bottom; and that this was the case formerly in Sumatra is my opinion.* For the manners of the natives of the Philippine islands, correspond in so many striking particulars, with those of the Sumatranst that no doubt can be entertained, fays Mr. MARSDEN, if not of a fameness of origin, at least of an intercourse and connexion, in former times, which no longer exists. They used to write from top to bottom, till the Spaniards taught them to write from left to right. The Tagala alphabet in these islands, has certainly great affinity with those of Sumatra.

The two alphabets of the Sumatrans confift only, one of twentythree, and the other of nineteen letters; but it is probable that there were two forts of them formerly, as in India, and which were originally the same. One was used by the more civilized and learned

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Dr. Leyden, who has been lately engaged in inquiries concerning the tribes inhabiting the islands of the eastern Archipelage, partly confirms this conjecture by the information, that the mode of writing, practifed by on. of the tribes in Sumatra (the Battar), is perpendicular; but instead of commencing at the top of the line, the writing begins at the bottom. Marsaden's Batta alphabet is stated to be correct, provided the plate be turned in a perpendicular instead of a horizontal direction. H. T. C.

t History of Sumatra, p. 255.

chaffes, and at court; the other was current among the lower claffes, whose poor and barren dialects had sewer sounds to express. Be this as it may, the elements of their alphabets have an obvious affinity with those of the Sanscrit. The Sanscrit alphabet, after striking off the double letters, and such as are used to express sounds peculiar to that language, has a surprising affinity with the old alphabets used in Europe; and they seem to have been originally the same. This subject I intend to resume hereafter. The Emperors of Sumatra, when endeavouring to introduce civilization into their country, opened an intercourse with India, but more particularly with the kingdom of Magadha, and Palibothra; for, as Mr. Marsden judiciously observes, the Malay language has received no improvement from the dialects of the Peninsula in India. All the Hindi and Sanscrit words in that language are such as were in use at the court of the Emperors of India, residing in Bahar, and among the better fort of the inhabitants of that country.

The Kings of Sumatra call themselves Mahá-rájas to this day; their prime ministers are called Mantri: which are both Sanscrit terms. In their language Dewa and Dewata are derived from Deva and Devatá in Sanscrit; the first of which signifies a god, and the other a deity. Among the names of places in Sumatra, very sew are Sanscrit, but the following are undoubtedly such; viz. Indragiri, Indrapura, Ipura or Aipura, Sinha-pura, Singá-pour, or Sincápour.

JAMBULUS says that this tract of islands, or Lanca, consided of seven principal ones: and to this day in the Peninsula, Lanca is often called

^{*} As Res. v. iv. p. 233.

[†] Hift. of Sumatra, p. 285, and from Mantri the Portuguese made Mandarin.

Yail-Lancá or the seven Lancás; because it consisted of seven islands.

This information I owe to Mr. Duncan, Governor of Bombay. From

Yail-Lancá former travellers made Ylanca.

SUMATRA is perhaps the island of Sabalá mentioned in one of the Puránas; and it is the same which is called Saivalá or Saibalá in the Váyu purána, section of the earth, and represented as a mountainous region in the skirts of Bhadráíva, or that part of the old continent between the N. E. and S. E. quarters. From Saibalá, Apuleius and Aristotle* probably made Phebol or Psebol, as some learned men are inclined to read it. The sormer says, that in the eastern seas, there are two large islands, Taprobane and Phebol: Aristotle places the latter opposite to Arabia, and we have seen before that the Pauránics, Arabian and Persian authors insist, that Sumatra is close to the continent of Africa. The island of Sabala is probably the Samil or Shamel of El-Edrissi and other eastern geographers, who call it also Sabil. The country of Cephala is noticed by sormer European travellers; and in the year 1543 adventurers from that country plundered and ravaged part of the island of Sumatra,

III. LET us now pass to the third island or Sinhala, now Ceylon.

Its Sanscrit name is a derivative form from Sinha a lion, and it was given to it on account of its being inhabited by Sinhalas, or the off-

^{*} ARISTOT. de Mundo,

t Hift, of Sumatra, p. 6 ...

fpring of a lion.* It is however more generally called Lanca in the Puranas, and is represented there as the country of Ravana, or Raban, the brother of Cuvera; and both were born at the extremities of the world, in the N. W. As he was contemporary with RA'MACHAN-DRA, if there ever was such a being, he must have lived about 1800 years before CHRIST. The wars of RA'VANA in Lanca, and the adjacent countries, are famous all over India, and make an era in the history of Ceylon. Traditionary legends in that island fay, that in consequence of this bloody war, the island was depopulated, and remained in that state for 1845 years, being only inhabited by Daityas, or rather favage tribes. Ceylon was afterwards called 'Salava, or 'Sálavam according to F. BARTHOLOMEO, from the Saleyas, a certain tribe in India called also in the Puran'as Salavas. The famous peak of Adam was called 'Salmala, or the mountain of Sala. It is mentioned in the commentary on the Surya-Sid l'hanta; in which it is faid, that MAYA the offspring of the fun by the daughter of the divine Twashta in the west, came from Rómaca-nagara or Rome to the mountain of Sal-mala in Lanca, to make tapasya in honour of the fun, in order to obtain astronomical knowledge from him. Another name for it is Samanala from Saumya-Nala another son of Twashta, who built RA'MA's bridge. Twashta is the chief engineer of the gods, and his grand-fon Maya of the Dailyas.

The appellation of 'Salica, or Sálice, as it was called by ancient geographers of the second century, is also a regular derivative form in Sanscrit, from 'Sála or 'Sáli: this denomination was unknown to PLINY. According to F. BARTHOLOMEO, and former travellers, Ceylon was cal-

As. Res. v. vii. p. 48.

led Ilan, and Ila-nad, Ilanar; the country of Ila, which fignifies the earth in general. Tra-nad, or Tranate, another name for it, fignifies the three countries, meaning I suppose the three islands of Lanca.

THE Hindus reckon the longitude from the meridian of Lanca, passing through the peak of 'Sálmala, the place of worship called Rámes'wara, (or dedicated to Is'wara, with the title of Rama,) Avanti or Ujjain, Meru, and the mountain of Vatsa in Curu or Siberia, which last is most probably an imaginary place in that country. The place of Rama was called Arima by Musleman writers; and they faid that it was under the equator, and exactly half way between the straits of Alexander or Malaca, and those of Hercules or Gades in the west: and they gave the name of Gadir or Gades to these two straits, both leading into two vast Mediterranean seas; and through Arima the Hindus, and even some Arabian authors, it is faid, made their first meridian to pass. ALI Coshgi a Persian aftronomer, who lived about 350 years ago, fays that in his time some Hindus placed their first meridian at Cancadora, or Jum cote in the east.* I believe that some of them did so formerly. and this of course occasioned afterwards some consusion. Their first meridian then paffed through the eastern Cerne, and the last through . the western one, the several islands of which tract were the original islands of the blessed. When this mode of reckoning was altered, the meridian was placed in the middle of the world, yet it flill paffed through the eastern Cerne; though through a different part of it. This induced them also to bring one extremity of the western Cerne under the same meridian, probably for the sake of symmetry, which was cer-

^{*} Abulteda Chorasmia &c. descriptio int. Geograph. min. vol. iii. p. g.

tainly a fufficient reason with them. Thus the iron peaks of the two-Tri cûtádris sell in the same meridian, and the northern one might be about Nova-Zembla.

This made me suppose, on my first acquaintance with the Puran'as, that the White Island was an Utopian land, and I resolved of course to give myself no further trouble about it. The ingenious Mr. BAILLY would not have failed, to have confidered this projection of the northern Tri-cuta, as a confirmation of his own system. There is another instance of the fondness of the Hindus for a symmetrical arrangement, and noticed by STRABO, as we have feen in the first part. The mountains to the north of India are in an oblique direction, and the first range of the snowy mountains is in the same line with Romaca-pattan or Rome, and Yamapuri or Jumcote, as placed by the Hindus, one at the furthest extremities of the west, and the other in the same manner toward the east, as represented in the second number of the accompanying plate. But as this oblique direction of the mountains to the north of India, does not look fo well in the mode of projection adopted by the Hindus, they have represented them in a parallel direction with the equator; and with them Jumcote and Rome. STRABO highly reprobates that alteration in the direction of the mountains to the north of India; and which in his time, had been adopted by geographers in the west.

THESE two Gadirs, called the eastern and western gates, by Arab and Persian authors, are in an oblique direction, and may be called the terrestrial gates: for in heaven there are also two gateways, one in the west in the tropic of Cancer and the other in the east in the other tropic. These were called the gates of the sun: the southern one was

denominated the water gate, and the fire gate was in the north. The fouls of the departed ascend through one gate, and those who are to be born again descend through the other, according to western mythologists. The Hindus have also two roads, one in the north or left, and the other in the south. Those who follow the left path, ascend through the northern road; and those, who follow the right one, ascend through the southern path.

into numerous tribes, and equally $_{p}$ $_{Q}$ imilar in their bacquages and man-

Situated between Lists and China, each of which provide interiors in the intitions of the carried article in the intition of the carried they carried them. Telves with more modelly claims to antiquity, and provide the borners from one or other of their neighbours the principal features of their relation, however of their neighbours the different periods however at which their were adopted in different countries; the various degrees of cities the carried and the pre-existing balats on which they were organized, increding the state of the countries, by which they are established in the pre-existing balats on which they were organized, increding the order of the countries, by which they are established in the pre-existing balats on which they were organized, increding the order of the countries of the countries, by which they are established as

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On the LANGUAGES and LITERATURE of the INDO-CHINESE NATIONS.

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THE. inhabitants of the regions which lie between India and China, and the greater part of the islanders of the eastern sea, though divided into numerous tribes, and equally dissimilar in their languages and manners, may yet with propriety be characterized by the term Indo-Chinese. Situated between India and China, each of which proudly styles itself the most ancient among the nations of the earth, they have contented themselves with more modest claims to antiquity, and professed to borrow from one or other of their neighbours the principal features of their religion, laws and manners. The different periods however at which these were adopted in different countries, the various degrees of civilization, and the pre-existing habits on which they were engrafted, have produced a diversity of national characteristics, by which they are not only distinguished from the Indian and Chinese nations, but also from one another, notwithstanding their common mixed origin.

The intercourse of Europeans with the Indo-Chinese nations, though, for the first two centuries after the arrival of the Portugueze in the East, scarcely inferior to that which was carried on with India or China, was not of such a kind as to surnish us with a very accurate or extensive knowledge of their laws, manners or literature; and for more than a century it has been rather declining than increasing. Neither, since our

late rapid acquifitions in Indian languages and literature, have we obtained any important accessions to our information in this quarter; though both political and literary reasons seem to require them.

THE materials of this imperfect sketch were chiefly collected in the course of a voyage, which the state of my health caused me to take to the eastern isles, in 1805, during which I refided some time at Penang, and wifited Achi, with some other places on the coasts of Sumatra and the Malayan peninfula. Cultivating an intercourse with a variety of individuals of different eaftern tribes, I availed myself of the facilities which the fituation presented, to correct the vague ideas which I had previously entertained, concerning their languages, literature and the filiation of their tribes. Though my information was chiefly collected. from native fources, yet it fometimes happened, that these were not exaftly fuch as I should have preferred, had better been attainable; and fometimes too, from the indifferent state of my health and other causes, I was not able to avail myfelf of these sources of information to the extent I could have wished. Feeling myself equally embarrassed by the extent of the subject, the difficulty of the research, and, perhaps I may add in fome inflances, by the novelty of the investigation, I should have hefitated to lay before the Afiatic Society these impersect results, had I had any immediate prespect of pursuing the discussion. I do not however despair of being able, at no very distant period, to offer some more minute and correct views of feveral of the subjects treated here in a curfory manner; and, at all events, I trust this attempt to introduce order and arrangement into a subject at once so extensive and intricate, and to difentangle it from a degree of confusion which seemed almost inextricable, may not be altogether without its use; but may, even where I have failed, serve to point out the proper method of investigation, as

THE Indo-Chinese nations, at a very early period, feem to have generally-embraced the fystem of Budd'HA. From the want of original historical documents, we can only conjecture the period at which this event took place, in the different regions over which it has extended; but at present it is chiefly confined to the continent. The coasts of the Malayan peninfula, and of the greater part of the eaftern ifles, are chiefly occupied by the Moslems. The original inhabitants, therefore, being for the most part confined to the interior of these islands, are still very imperfectly known to Europeans; so that it is often impossible to determine, whether their religious institutions are most connected with the tenets of BRAHMA or BUDD'HA, and often to reduce them to any known fystem. From the names and epithets however of some of their deities, even as given in the vulgar and incurious manner of common navigators, it is often easy to discover their connection with the grand features of Hindu superstition; but our notices concerning them are generally too scanty, and our narratives too erroneous, to enable us to classify them with absolute certainty. Such is the difference of oriental and European manners, that the simplest narrator is apt to mingle conjecture with observation; while an absurd affectation of superior sagacity and a disdain of vulgar superstitions and prejudices, often prevent those who have had the opportunity of observation, from detailing the most useful pieces of information, or induce them to reject, as anile and useless fables, the mythological narratives which would enable us to determine the origin of a nation or a tribe.

. WITH the exception of the Malays, and perhaps fome rude tribes of mountaineers, the nations who occupy the countries which extend from India to China, profess only one religion, and adhere almost folely to the fystem of Buod'HA. In so wast an extent of country some diversity of local institutions is always to be expected; but the spirit of the system and its influence on the manners of the people, in the same state of civilization, is effentially the Tame from Chatigan to China. This fystem in its grand features identifies itself with that which prevails in Nepal, Butan and Tibet, and has extended itself over the immense regions of Chin, Cham and Japuen, or China, Tartary and Japan. Though it does not appear that all the nations who occupy this prodigious extent of territory employ the same learned language in the preservation of their facred books and religious tracts, yet this is the case with the Indo-Chinese nations, who, with the Singhalese, or inhabitants of Ceylon, uniformly employ the Bak or Pali, in the facred compositions of the Budd'hist sect, . This language does not exist as a vernacular tongue, but is the language of religion, learning and science, and appears to have exerted an influence, over the vernacular languages of the Indo-Chinese nations, fimilar to that which the Sanscrit has exhibited among the popular languages of Hindustan and Dek'hin. for develoring the or in a marion and indicating the

THE Malayu language, and the more original languages of the eastern isles, seem, in their original formation, to have been polysyllabic, like Sanscrit, Pali, and the spoken dialects of India. The modifications which these languages have received from a foreign source, seem, for the most part, to have been effected, rather by the immediate agency of Sansarate.

scrit than of Pali; though the influence of this latter is not to be entirely excluded. But several of them have been a second time modified, by the introduction of Arabic, as the language of religion and learning, after the conversion of several of these tribes to the Mahummedan faith.

The vernacular Indo-Chinese languages on the continent, seem all to be, in their original structure, either purely monosyllabic, like the spoken languages of China, or they incline so much to this class, that it may be strongly suspected, that the sew original polysyllables which they contain, have either been immediately derived from the Pali, or formed of coalescing monosyllables. These languages are all prodigiously varied by accentuation, like the spoken languages of China; and every foreign modification which they have received seems to have been immediately derived from the Pali.

In the paucity of existing monuments, relative to the Indo-Chinese nations, no better method presented itself, either for classing their tribes, or laying a foundation for historical researches, than by examining the mutual relation of the several languages which are current among them. This method, when applied on an extensive scale, is always the surest clue for developing the origin of a nation, and indicating the revolutions to which it may have been subjected, either by foreign conquest or colonization. After the relations of the language itself, the ancient monuments and compositions, preserved in it, claim our regard; and I have therefore noted, under their respective heads, such as have come to my knowledge; premising that my opportunities of procuring this species of information have been very unfavourable, and of examining them, very limited.

The Indo-Chinese languages may be confidered in the following order, but to while ent can be found or the tillies of that or the

P	olysyllabic languages.	Monosyllabic languages.
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I. MALAYU.—The Malayu language, fo pronounced in the Malaya peninfula, but by Europeans generally denominated Malay, is used by the numerous and enterprifing nation, of that name, who are termed Khek by the Siamese, and Masú by the Barmas. This language, which from its sweetness, has been termed the Italian, and from its widely extended use, the Hindustaní of the East, though it coincides with the monofyllabic languages in its general construction and analogies, is properly polyfyllabic in its form. Having spread itself over a great extent of country, not only in the Malaya peninfula, but far among the eastern isles; and having been propagated by a race more skilled in arms than in letters, it has branched out into almost as many dialects as flates, by mixing in different proportions with the native languages of the aboriginal races. This is the circumstance which renders the investigation of the origin and relations of the Malayu language a matter of difficulty, as it becomes necessary to examine the history of the nation, as well as the structure and composition of the language itself. Though used by a nation of comparatively late origin, at least with respect to the principal seatures which it at present presents, the history of this nation is still very obscure, rather, it may be presumed, from the want of investigation, than from the want of materials for its illustration. The history of the origin and progress of the Malayu tongue, of course partakes of this obscurity; but notwithstanding the great diversity which occurs in the spoken dialects, in the bazar jargon, or as the Malays term it, the Basa Dagang, of the several Malay states, the Basa Jawi or written language of composition, is nearly the same in all; and the popular, or vernacular languages, are reckoned pure, in proportion as they approximate to the written language.

Assuming therefore the Basa Jami as the flandard of comparison, the Malayu language, in its present state, consists of three principal component parts. The first of these, which is rather the most copious and current in the language of conversation, may, perhaps, in the present state of our knowledge, be regarded as original, though it is not only connected with the insular languages, but with some of the monosyllabic, as Barma and Thay. The second, which is obviously derived from the Sanscrit, is rather inserior in the number of vocables to the stirst, though, as far as regards general use, greatly superior to the third part, which is derived from the Arabic. As a spoken language, the Malayu exists in the greatest purity in the tin countries, or the peninsular of Malaya, which is obviously the Temala of Ptolemy. Temala is a regular derivative from the Malay vocable tema, which signifies tin, and from this, among other circumssances, we may be permitted to infer the high antiquity of the bass of the Malay language from its giving name

to the Cassiterides of the east. The Malayu language is spoken in its greatest purity in the states of Kiddeh or Tanna Say, Pera'k, Salangor, Killung, Johór, Tringgano, Pahang and as far as Patani, where it meets the Siamese. Among the western Malays in general, it is spoken with more purity than among the more eafterly ifles, but on the coast of Sumatra, or Pulow Puricha, it is intermixed with the Batta and other original languages. The Menangkábow race, who feem at an early period to have ruled the whole island of Sumatra, whose chief assumes the name of MAHA' RA'JA' of RA'JA's, and derives his origin from Lánkápura, speak a dialect of Malayu, which differs confiderably from that of the peninfula; but which feems, as far as I can judge, to coincide in many respects with the Jawa or Javanese language. The race have probably derived their origin from Lankapura in Java. The Malayu dialect of Riyow and Linga feems to be mixed with Javanese, as are those of the Malay states on the island of Java. The dialect of Puntiana and Sambas is purer than that of Borneo or of Banjar, but that of Passir, on the east coast of Borneo, is greatly mixed with the original language of Celebes, or the Bugis. The Malays of Celebes speak a dialect greatly mixed with Bugis, while those of the Moluccas and the more eastern isles have adopted such a multitude of foreign words, that their dialect sometimes seems to be quite a different language. The fimplicity of structure which the Malayu language possesses, in common with those of the monosyllabic class, greatly facilitates this adoption of foreign terms; and the practice is so prevalent in the more easterly isles, that the term Basa Timor, or the eastern language, is currently applied to every kind of jargon.

As the Malayu language, from its wide extent and the adventurous spirit of the nation, seems to have exerted, in the eastern isles, a modifying influence, similar to that of the Sanscrit in Hindustan and Dekhin, and of the Pali among the Indo-Chinese nations; it becomes necessary to examine it somewhat more particularly; especially as some of the opinions I have been led to adopt concerning it are somewhat different from those which have been entertained by names of great authority.

THE Malay language, according to MARSDEN, whose opinion has been rather admitted than confirmed by Sir W. Jones, is " a branch, or dialect, of the widely extended language, prevailing throughout the islands of the Archipelago, to which it gives name, (which may be understood to comprehend the Sunda, Philippine and Molucca islands) and those of the South Sea; comprehending, between Madagascar on the one hand, and Easter Island on the other, both inclusive, the space of full 200 degrees of longitude. This confideration alone," adds that able author, " is fufficient to give it claim to the highest degree of antiquity, and to originality, as far as that term can be applied. The various dialects of this speech, though they have a wonderful accordance in many effential properties, have experienced those changes which separation, time and accident produce; and, in respect to the purposes of intercourse, may be classed into several languages, differing considerably from each other." * In another paper, published in the Archæologia, vol. VI, this able author has successfully exhibited a variety of instances of coincidence, both in found and fignification, between the Malay and feveral of the eastern

[.] Afiat, Refearch, Vol. IV.

dialects. By attempting to prove too much, however, I apprehend, that he has failed effentially. He has pointed out a few coincidences, but has left the mass of the language totally unaccounted for; and as the few coinciding words may all have been derived from a common fource, it is perhaps a more natural inference to conclude that they have all been modified by some general language, than with Sir W. Jones, to determine that the parent of them all has been the Sanscrit. The fame author, in his history of Sumatra, feems inclined to think that the Malay language was indigenous in the Malay peninfula, from which it extended itself among the eastern isles, till it became the lingua franca of that part of the globe. The author of the description of Siam, in the modern part of the Universal History, not only assigns a very different origin to the language, but accounts in a very different manner for its uncommon extent. Describing Malacca, he observes, " The Malayan tongue is formed out of the languages of the different nations which refort hither, by felecting the choicest words in each. Hence it is reckoned the most agreeable and elegant in all the Indies, which quality, joined to its use in trade, causes it to be learned by the remotest eastern people." A language, formed according to this ingenious idea of felection, might probably be remarkably agreeable and elegant, but it would be still more remarkable, as a new phænomenon in the history of nations. It would certainly be a very uncommon occurrence, in the history of mankind, to discover a nation so choice in matters of abstract found, and so refined in their organs of hearing, as to take the trouble to learn a copious and unknown language, for the mere abstract pleafure of gratifying this delicate sense, or appetite for sweet vocalic founds. Nevertheless, though the author is a little unfortunate in his doctrine

of causes, the fact to which he alludes is worthy of attention; for it is not necessary to possess a very minute knowledge of the Malayu language, to be able to call its originality in question. It may be safely affirmed, that neither the Malay lingua franca of commerce, nor any of the maritime dialects of Malayu existed previous to the æra of Mahummed, in a state similar to that in which they appear at present; and these dialects seem to comprehend all that are usually included under the denomination of the Malayu language.

THE Malayu language, in this limited sense, is obviously indebted to two foreign sources, for the majority of the vocables which compose it, and these are the Sanscrit and the Arabic.

The connection between the Sanscrit and Malayu was first remarked by Sir W. Jones, and Mr. Marsden has confirmed the fact, by about fisteen examples, selected, as he says, with little pains, from a Malay dictionary, which, had he been acquainted with the Sanscrit language, he might, with very little labour, have extended to fisteen hundred, or perhaps five thousand. Many of the Sanscrit words in the Malayu, as he observes, are such as the progress of civilization must soon have rendered necessary, being frequently expressive of mental feelings, or such modes of thinking as naturally result from the social habits of mankind, or from the evils which tend to interrupt them. Many of the names of the common objects of sensation are also of Sanscrit origin; nevertheless the simplest part of the Malayu language, and that which is most indispensable to its existence as a distinct tongue, is certainly not derived from the Sanscrit.

Mercernicitie, though the author is a little unfortunary in his spelline

WITH respect to the connection between Arabic and Malayu, MARSDEN observes, that the latter language abounds with Arabic words, which writers affect to introduce, because this display of literary skill is, at the same time, a proof of their religious knowledge. He adds, that these words are generally legal or metaphysical terms, borrowed from the Koran or its commentaries, that they are never expressive of fimple ideas, are rarely used in conversation, and, with few exceptions, feem never to have been thoroughly incorporated into the language. This account of the introduction of Arabic into Malayu is unexceptionably just, excepting with respect to the use of Arabic terms in conversation, which is affected by all Malays who have any pretentions to literature. The number of Arabic vocables, too, that have been introduced into Malay compositions, though certainly inferior to those of Sanscrit origin, are considerably more numerous than might be supposed from this statement; or rather, as in Persic and Turki, it is difficult to affign any bounds to their introduction, but the pleasure of the writer. It may also be observed here, that in the Malayu language, Arabic plurals are very commonly used as fingulars, as often happens in Turki, and other dialects which admit of a mixture of Arabic. MARSDEN has mentioned another peculiarity, in which Arabic vocables, adopted by the Malayu, differ from adopted Sanscrit terms. While the Arabic words retain their peculiar and harsh pronunciation, those of Sanscrit origin are softened down, and assimilated with the rest of the language. This observation must likewise be taken with many limitations; for numerous words, of Arabic origin, are so completely assimilated to the Malayu pronunciation, that they are no longer capable of being recognized, even by a

native Arab, unless by attention to their radicals; the ain and ghain, in particular, excepting in religious terms, are very generally converted into Alif and Gaf, both in writing and pronunciation. It is certain, however, that Arabic words are naturally untractable, and are apt to have a foreign appearance, when assumed into any other language, in spite of all modifications. The Arabic is a language so complete in itself, and so peculiar in its structure, that it is as little capable of coalescing neatly with any other language, as a curved line with a straight one.

MARSDEN has likewise hazarded an opinion, that the polish, which the Malayu has derived from Sanscrit or Hinduvi, has been obtained immediately from the natives of Guzerat, previous to the debalement of the genuine Hinduvi of the northern provinces, by the mixture of Arabic nouns, and the abuse of verbal auxiliaries. The resort of the people of Guzerat to Malacca, he adds, " is particularly noticed by DE BARROS and other authentic writers; and it is well known that the Hindu language has been preserved, with more purity, in that, than in any other maritime province of India." To this, it is fufficient to an-Iwer, that the Sanscrit vocables, adopted in Malayu and Guzeráti, are generally preferved purer in the former than in the latter; that the Guzeráti has no pretensions to be considered as a pure dialect of Hinduvi, but, on the contrary, is one of the very first that was corrupted by a mixture of Arabic, and that long prior to the period mentioned by DE BARROS. The Bengali language itself, corrupted in pronunciation, as it certainly is, might have been more. fafely adopted, as the medium for the introduction of Sanscrit vocables into Malayu. Many Sanscrit words that are in current use in Bengáli, likewise occur in Malayu, with almost

the very fame pronunciation. Of this it it easy to produce a multitude of instances. The following are such as present themselves spontaneously:

Beng.		e 135		Malay.		
Tot'hapi,	-	*		Tatapi -		but, however.
Punăh,		-		Pún		farther, again.
Tutkalé,	1423	(A) 155		Tutkala -	-	then.
Bongfh,	+	-	1.2	Bangfu -	+	a race or family.
Kichhu or	Kichhi,	-	Will d	Kichi	7 .	a little.
Inggit, a fi	gnal,	net-year		Ingat -	+	notice, memory.
Barung, a g	ift, a th	ing, a c	quality.	Barang-barang,	-	any thing.

But it is needless to adduce further instances; as the Malay history and the language itself, exhibit traces, sufficiently clear, to direct us to the region, with which the Malays had the most frequent intercourse, at an early period, and from which their language feems to have received the most considerable modifications, and that is the ancient kingdom of Kalinga. Here I am again under the necessity of diffenting from MARSDEN'S opinion. He fays, "It is evident, that from the Telinga, or the Tamool, the Malayan has not received any portion of its improvement." I apprehend that the express reverse of this opinion is evident; for the Malays, at this very period, know the Coromandel coast by no other name than Tanna Keling, the land of Keling or Kalinga: a multitude of compositions, current among them, profess to be translations from the Basa-Keling, or Kalinga language; and the Malayu language contains a great number of words that are Tamul, Malayalam and Telinga; though neither Sanscrit, . Hinduví, nor Guzeráti; and a variety that are only to be found in Telinga, the vernacular language of the Kalinga Desa.

For the same reasons that I infer an ancient intercourse to have subfisted between the Malays and Kalingas, I am induced to think that a very intimate connection subfished, at a very early period, between the Malays and Javanese. Not only the proximity of the island of Java, and the constant intercourse between the Malays and Javanese, point to this connection, but the whole of Malay literature, the state of the language, and the whole series of Malay history, confirm it. It is from the Javanese that the Malays profess to have received all their earlier mythological fables; and a great variety of their books profess to be tranflations from that language: even in compositions professedly translated from the Keling language, the Javanese name of the story is often mentioned: and almost every Sanscrit term, that occurs in Malaya, is likewise to be found in the Basa Dalam Jawa, the high language of Java, or rather the language of the interior; though a multitude of Sanscrit words, current in the Javanese language, are not to be found in the Malayu. Besides, many of the Malay states, and those of the greatest antiquity, are known to have been founded by Javanese adventurers, anterior to the arrival of the Arabs; and if the historical traditions of the Malays were better known, there are many reasons for supposing, that more of them would be found to claim the same origin.

The greater part of the words of Sanscrit origin, found in Malayu, do not appear, to have been introduced through the medium of the Bali. In many instances, the Malayu form approaches nearer the pure Sanscrit than even the Bali itself; and many mythological stories exist in Malayu, and mythological characters are introduced in them, that, as far as I have been able to learn, do not occur in Bali compositions, at all, nor in any of the Indo-Chinese languages of the continent.

But after affigning the Arabic and Sanscrit vocables to their proper fources, a large proportion of words in the language will still remain unaccounted for; and thefe, words too, expressive of the most simple class of our ideas, and the most remarkable objects in nature. This part of the language, which, in comparison of the rest, may be termed native or original, MARSDEN attributes to what he reckons the original infular language of the South Seas; and this original language again, Sir W. JONES pronounces a derivative from the Sanserit. That it is not Sanscrit, a very flender knowledge of the two languages is fufficient to evince; and if this original part should itself turn out to be derived, as I apprehend, from different fources, the idea of an original infular language will fall to the ground. Now there are a variety of reasons for supposing, that this part of the Malayu language, which might be imagined the most fimple and original, is, in reality, more corrupted and mixed, than those parts which are confessedly derived from a foreign source. Several of the Malayu terms, which express the most simple and remarkable objects in nature, appear to be only groß auricular corruptions of true regular terms in the more ancient eaftern languages, as Jawa, Bugis, Thay, and Barma; and many of the simplest objects are not distinguished in Malayu by fimple words, but by compound metaphorical and fignificant terms. The omission of the first syllable, in words derived from a foreign language, whether ancient or modern, is a frequent practice in the Malayu language: thus the Sanscrit Avatara becomes Bitara, and thus rumbulun, the moon, in Javanese, becomes Bulun in Malayu-and Môputi, which fignifies white, in Bugis, becomes puti in Malayu. Again, the metaphorical term mata-hari, which literally fignifies the eye

of day, is the only native term for the fun; though Chinkerwala, a corruption of the Bali term Chakrawala, has been adopted in the higher dialect, or poetical flyle, termed the Basa Dalam. The Malay term tukin; which fignifies the aged, is used as fynony mous with Allaht'aala, which they have adopted from the Arabic. A number of Thay vocables occur in Malayu; but, for the most part, they are neither expressive of our simplest ideas, nor of the most remarkable objects in nature, excepting perhaps ku the contracted term of Aku, I, in Malayu, which is the same in T'hay or Siamese. A variety, however, of important words feem to have been adopted from the Barma language, especially in the verbal auxiliaries; and, in most of these instances, it may be observed, that the Malayu pronunciation coincides better with that of Tavay, or Tinnau, than with that of the Barmas proper. Thus the substantive verbal auxiliary of the present, adda, seems to be only a modification of the more simple da or de of the Barma language. The past suda of the Barma syi de, the auxiliary of the future jadi of the Barma ra-dé, pronounced ya-dé or ja-de, maw, will or may, is a modification of the Barma Mi, or minh, and the permissive auxiliary leh of the Barma le. Of the connection of the Malayu with any of the spoken dialects of China, it is more difficult to speak with accuracy, in the present state of our knowledge. BARROW, and some other authors of reputation, are inclined to attribute the origin of the Malay tribes to the nations of China; and that author observes, that many words, in the languages of Sumatra, are fimilar in found to Chinese vocables; and that the corresponding words generally express the same idea in both languages. Of the value of this opinion it is not easy to speak in correct terms, for the proper Chinese languages,

are at least ten in number, and the dialects of Sumatra, vary almost as much, on a small scale, as the dialects of the Chinese; and to jumable together a number of corresponding words, in all those dialects, may therefore be no very difficult task. Some coincidences there certainly are, between the Malayu and the Chinese-Mandarin language; thus in the first personal Pronoun, saya and gua, which both signify I in Malayu, very nearly coincide with the Chinese sead and ngo, which have the same signification; but, on the whole, these coincidences seem neither very numerous nor important.

THE Malayu language is extremely well fitted for being a Lingua Franca, or general medium of communication, among the eastern isles, by the smoothness and sweetness of its tone, and the simplicity of its structure and construction. Its simple pronouns indicate rank and situation, and are almost as numerous as in Chinese; but the different dialects of the Malayu vary considerably, both in the use of the pronouns and of the verbal auxiliaries. It may also be observed, that the more mixed and impure any dialect of Malayu is, it is more verbose, more indefinite, in its expressions, and more loaded with useless auxiliaries and epithets, which ancumber the language, without adding either elegance, force or dignity. The beauty and elegance of the Malayu is its simplicity; and the purity of its minor dialects may often be ascertained by this criterion alone.

THE literature of the Malays, though the language is well adapted for poetry, is not distinguished by many features of originality. A degree of monotony and repetition occurs in all the compositions of the mono-

fyllabic languages, which has a great tendency to damp the ardour of composition, and extinguish poetical fire. The construction of the Malay is analogous to that of the monofyllubic languages, and there is also confiderable fimilarity in the character of its compositions. The most savorite species of composition, among the Malays, is the Pantún, a word which is generally translated song, but which perhaps might with more propriety be rendered simile or proverb, as it confilts of a fimile, proverb or apophthegm verlified, and its application. A Pantun is a rhyming quatrain, and is always restricted to four lines; hence it affects a kind of oracular brevity, which is very difficult to be comprehended by Europeans, who can feldom perceive any connection between the fimilitude. and the application. The Malays allege, that the application of the image, maxim or fimilitude, is always accurate; but it may be suspected that if one half of the verse be for the sense, it often happens that the other is only for the rhyme; as in the ancient Welsh triads or triplets, in which there is professedly no connection between the natural image and the moral maxim. These Pantiins the Malays often recite, in alternate contest; for feveral hours; the preceding Pantun always furnishing the catch-word to that which follows, until one of the parties be filenced or vanquished, or as the Malays express it, be dead, suda mati. Many of these Pantuns bear no inconsiderable resemblances to the Dohras and Kubitas in the ancient Hinduvi and Vruja dialects of Hindustan.

The Sayer is another species of composition, which is analogous to the Persic Musnevi. Moral poems, resembling the Pundnamehs of the Persians, didactic works, or descriptive compositions and legendary or heroic narratives, are composed in this measure. The

Cheritra or Hikaiat, also denominated Chitra and Kuggawin, from the Javanese, is more generally written in profe, but frequently intermixed with verse, both in the measures of the Sayer and Pantien. These Chevitras contain the mythological stories current among the Malay tribes, and also fragments of their history, embellished in a poetical manner. The three great fources of all the Malay legends are the Javanese, Keling and Arabic languages, but in the compositions of latter date, the characters and incidents are fo mixed, that it is not always easy to determine to which of these sources they ought to be referred. There is also one class of stories which the learned Malays term Susupun, I imagine from an ancient dynasty of Javanese princes to whom they relate. Some of these legends also coincide in the general story with those of the Siamese, as the Malay Selimbari with the Siamese Khun-R'ben; and the Hikaiat Shah Murdan with the Siamese Lintong. When characters familiar in Sanscrit mythology are introduced into the Malay legends, their adventures are generally transferred by the Malays to the interior of Java; and even Arabian characters are often reprefented as performing their adventures in the Mulay countries. Many of these narratives exist both in profe and verse, and of several there seem to be two editions; one derived immediately from the Javanese language, and which commonly contains a confiderable number of Javanese vocables; the other from the Keling, which often contains a certain proportion of words more immediately derived from the Sanscrit and Telinga.

Or this latter class are probably the narratives termed Hikaiat Pindawa, or Pandu stories, which seem popular versions, or rather abridgements, of the different parts of the Mahabh'árata; some of which, in reality, give the outline of the story, as faithfully as the popular abridgements of it, which I have perufed in Mahrata, Tamul or Telingar I am only acquainted with the following Malay Hikaiats of this class: Pindawa Lima, the story of the five Pandús; Pindawa Jaya, the victory of the Pandús; Pindawa Berjuddí, the gaming of the Pandús; Pindawa Pinjam bali, the Pandus borrowing a Palace; Pindawa berjewal kapur, the Pandús felling lime. The Hikaiat Maha Raja Buma of Purichu Nikassan, or account of the contest between BRAHMA and VISHNE, professes to be translated from the Keling of the dramatist MUNGAKARTA NIGA'RA. The Sah-Sipundia, or history of a Keling RAJAH, is probably derived from the fame fource. The Hikaiat Sri Rama is reckoned a Susupun story, as are the Kusoma Indra or history of INDRA, the Balinta Sena, the Sah Kobut, or history of the war with the Apes, the Rajah ular Ninggawong, the Hikaiat Bida Sari, the Hikaiat Raja Pikermadi or VICRAMADITYA CHERITRA, the Hikaiat Derma RAJAH, and the Hikaiat Kalil o Damna or Malay version of the Kalil o Dumna.

THE following are Javanese relations, the Hikaiat Chikkil Wunnungputti Rajah of Kirripun in the interior of Java, the Hikaiat Jarana
Tamasa, or the love adventures of a chieftain of Minjapahit in Java,
composed by Andika, the Kilana Perbujaya Cheritra, or story of
a Prince of Kirripun, the Misa Perbujaya Cheritra, the Misa
Kiamong Cheritra, or history of a Princess of Daha in Java, carried
off by Timu'ngu'ng Bapang Chakar Bima, and rescued by

BITARA KALA; the Jaran Kilinang Cheritra; the Ratu Bader Kisna Cheritra; the Panja Witin, or history of INU KURTAPUTTI; the Gambar Wira-Putra; the Gambar Sri Ratu Anum-Ani Maliyu, or history of GAMBAR SRI, Princess of Daha and RAJAH ANU'M of Malaya; the Naga Bisaru, or history of a Princess of Daha, who was transformed into a snake and confined in a lake, the Putti Kola Bisnu or history of VISHNU, the Kinta-Buhin, or history of a chief of Banjarkulin in Java, the Kilana Jayang Sittru, or history of RADIN JARAN TINANGLU, the Angling Dermavi Raja-Cheritra, and the Hikaiat Parang Púting, or history of the hatchet without the handle. To the same source are probably to be referred the following, if they are not purely of Malay composition; the Hikaiat Pelandik Jinaka, or history of the fagacious hogdeer. The Hikaiat Burung Pinggey, or history of a wonderful bird. The Deva Mandu Cheritra, the Sayer Sri Batin, the Hikaiat Bian and the Hikaiat Rajah Booda'k.

The following are modifications of Arabic narratives, accommodated, however, to the peculiarities of the Malayu manners and customs. The Hikaiat Amir Humda. The Hikaiat Rajah Kheiber, the chief of the Jewish tribe of Kheiber in Arabia. The Hikaiat Rajah Hinduk, the Hikaiat Mahummed Hanifah, the Hikaiat Khajeh Maimun, the Hikaiat Eblis, the Hikaiat Rajah Sbah Murdan, the Hikaiat Sultan Ibrahim-ibn-Adhem, the Hikaiat Sekunder Dulkharneini. The Koran is also translated into Malayu in the same paraphrastic manner as into Persic.

THERE are many Malayu compositions of a historical nature, though they are not fo common as the classes that have been enumerated: fuch as the Hikaiat Rajah-bangsu, which I have not feen, but which has been described to me as a genealogical history of the Malay RAJAHS. The Hikaiat Malaka, which relates the founding of that city by a Javanese adventurer, the arrival of the Portuguese and the combats of the Malays, with ALBUQUERQUE and the other Portuguese commanders. The Hikaiat Pitrajaya-Putti, or history of an ancient Rajah of Malacca, the Hikaiat Achi, or history of Achi or Achin in Sumatra and the Hikaiat Hang-Tuha, or the adventures of a Malay chief during the reign of the last Rajah of Malacca, and the account of a Malay embaffy fent to Mekka and Constantinople, to request affishance against the Portuguese. Such historical narratives are extremely numerous: indeed there is reason to believe that there is one of every state or tribe; and though occasionally embellished by siction, it is only from them that we can obtain an outline of the Malay history, and of the progress of the nation. The juridical customs or traditions of the Malays have likewife been collected into codes of different antiquity and authority. Among those of the greatest authority are the Undang Undang, and the Addat Malayu. The most ancient of these regulations however appear to have been adopted from the Javanese and Bugis. Particular states have at different periods composed peculiar regulations; as the Addat Kiddeh, which were compiled by Rajah SHAH ALUM, in An, Heg. 1151.

No dramatic compositions, in the Malayu language, have fallen, as yet, into my hands, though many of them are said to exist. Scenic ex-

Avoril owa

hibitions termed "Wayang-wayang," were till lately, very common in the peninsula of Malayu, but are now represented as less frequently exhibited. The subjects of the Malayu dramas are the same as those of their histories and romances, from which, like the dramatic compositions of the Siamese and Chinese, they only differ in assuming the form of dialogue and soliloquy, the progress of the incidents being generally the same.

THE following specimens of the Malayu Pantún and Sayer will exhibit the measure of the verse and the style of the composition. The first Pantún is a challenge to engage in a poetical contest. The rest exhibit the peculiar images introduced, and the manner of presenting them in the Pantún.

Tuan bulu, faya tumfang Marileh kita berkiler taji Tuan fapulu, faya fumbilan Marileh kita berfindir nyania

You are a bamboo and I am but a stender twig; Yet come on, let us sharpen our weapons: You are as ten, and I am only as nine; Yet come, let us contend in ironical verse.

Boah dalima ber pangfu pangfu
Samajuga bijinya merah
Jangan tuan berpilis bangfu
Samajuga daranya merah.

The pomegranate has many partitions,
But the feed is equally red in them all:
Do not give an undue preference to a rice of men,
For the blood is equally red in them all.

Boah mamplum deri Patani Mafa fabiji de kulum rufa Tuan Islam faya Nafrani Sama fama menangung dufa.

Of all the Mangoes of Patani
A ripe one is but a mouthful to a stage:
You are a Moslem and I a Christian
But we must equally bear our own faults.

Batang padi jangan de rúrút Kalu de rúrút rúfa batangnya Hati muda jangan de túrút Kalu de túrút rúfa badinya.

Shake not the rice stalk,

If you shake it the stalk is ruined:
Do not yield to youthful inclination,

If you yield your person is ruined.

Siri kuning deri Patani Pinang muda deri Malaka Puti kuning ana'k Nafrani Itu membawa badin chilaka.

The yellow betel leaf of Patani,
The fresh betel-nut of Malacca,
A white yellow christian damsel,
Bring a person to total ruin,

The following passage of the Selimbari is given as a specimen of the Sayer verse, in which the Malay romances and moral poems are generally composed. In both measure and style they exhibit considerable resemblance to the ancient English and French romances; there is little variety of pause or accent, and the line consists indifferently of eight or nine syllables, one long syllable being reckoned equivalent to two short.

Tutkala tuan lunkah de natang Mata mamandang fer urti bintang Chahianya limpah gilang gumilang Teadaléh abang dapat mamandang Pipinya bagei paŭ de lalang Bersambút dangan lehernya jinjang Paras sepúrti gumbar dan wayang Barang de makan berbayang bayang Dahinya bagei fahari bûlun Kinningnya bintúh bagei detillang Lalu de ambil jadikan túlun Mamáki chinchin permata Sélun Changgeynya panjang ber kilat kilat Sepurti mutiara suda tericat Pinggangnya ramping terlalu chantik Leher laksana gumbar delarik Mungluarkan kata yang patáh chirdík Bibirnya bagei patey chicharik Teada mamáki laku ber saja Giginya itam bukkus ber baja Chartik moïlik gilang de Raja Berfunting kutum bunga Seraja, Parafnya elők búkun kapalang Intahkan jiwa garangan hilang Kapada mata fuda terpandang Teadaléh dapat kumbali pulang.

When my mistress looks forth from her window,
Her eye sparkling like a star,
Its brilliant rays glancing and glittering
Her elder brother cannot support its lustre;
Like the red mangoe is the hue of her cheek,
Becoming her tapering neck,
Traversed with shadows whenever she swallows:
Her seatures like those of a statue or scenic sigure,
Her forehead like the new moon in its first day,
Her eye-brows curved, so fair I could devour her,
Long has she been chosen to be my mistress.

Wearing a ring fet with the gems of Ceylon, Her long nails thining like lightning, Transparent as a string of pearls, Her waist slender and extremely elegant, Her neck turned like a polished statue, Eloquent in the enunciation of her words, Her parting lips like the crimfon red wood Not by drefs, but by herfelf adorned; Black are her teeth stained with baja powder, Graceful, slender, appearing like a queen, Her locks adorned with the Seraja flowers, Her features beautiful with no defect of fymmetry. My foul is often fluttering ready to depart, Glancing eagerly forth from my eyes, And quite unable to return to its station,

THE character generally used by the Malays, is a modification of the Arabic; and, in addition to the proper Arabic alphabet, the Malayue uses fix letters, of which one is the Persic ché, a second the slurred dal, of the Hindustani, two more correspond in power to the Persic and Hindustani pa and ga, but are written of a different form, and the remaining two, nga and nya, are peculiar in form, but correspond to the nasals of the first and second series of the Deva-Nagari alphabet. The Malays of Java, however, often use the Javanese character, to express. their own language, as those of Celebes do the Búgís. In the Moluccas, the Latin character has obtained fome degree of currency, even among the Malays, and is sometimes used by them to express the Malayus language.

THE Malayu language was one of the first cultivated in the east by Europeans. The first attempt to form a grammar or dictionary of it, as far as I know, was made by DAVID HAEX, who published in Malayu and

Dutch, a vocabulary with some grammatical observations. At the request of Cardinal BARBERINI, the Dutch was rendered into Latin, and published with the Propaganda types at Rome, in 1631, under the title of " Dictionarium Malaico-Latinum et Latino-Malaicum, opera et studio DAVIDIS HAEX." This is a work of some merit, but seems to have been composed in the Moluccas, and inclines to the Basa Timor, or eastern dialect of the Malayu. The author has given a short list of Tarnata and Portuguese words, that have been adopted into Malayu, and some useful observations on the phraseology. Professor THUN-BERG, probably by mistake, mentions this work as published in 1707. It feems to have ferved among the Dutch, as a basis for similar compilations. The "Malaica Collectanea Vocabularia," or collection of vocabularies, was printed at Batavia in 1707-8, in 2 vols. 4to. and the " Dictionarium of te Woord ende Spraak bock in de Dutsche en de Maleysche Tale." at the same place in 1708, in 4to. A " Maleische Spraak-kunst" or Malay Grammar, was published by George Hendric Werndly, at Amsterdam, in 1726, 8vo. A "Nieuwe Woordenschaft in Neder-Duitsch, Maleisch en Portugeesch," was also published at Batavia in 8vo. 1780. The English have also contributed their share to the cultivation of this language. Bowrey's Grammar and Dictionary of the Malay language were published at London in 1701, in 4to. after the author had passed 19 years in trading among the eastern isles. This is a work of great merit and labour, and though the English character only is used, yet the pronunciation and the fignification of words are generally given with great accuracy. Bowrey, however, bad the affistance of the two eminent orientalists, Hype and Marshall, in its composition, both of whom

were excellently skilled in the language. In 1804 was published at London, " A Dictionary of the Mulay tongue, to which is prefixed, a Grammar of that language, by JAMES HOWISON, M.D." The author founds his claims on a ten years acquaintance with the Molays, and their language. From the scarcity of Bowney's work, I have not been able to compare it with the publication of Dr. Howison, but I suspect the additions of the latter to be neither numerous nor important. One improvement he has attempted, and it is the following: "In giving the Malay words in the Arabic character," fays he, "we have followed the excellent example of RICHARDSON and GIL-CHRIST in their Persian and Hindoostanee Dictionaries, and it is, in fact, the character used by the Malays themselves." But had Dr. Howison been acquainted with the Malay orthography, he would have perceived that this barbarous mode of converting the English character into the Persic, could be of no possible utility. either to an European, or an Asiatic. The Malayu has an established orthography, like the Arabic, Persic, and Hindustani; and this established orthography of Malay MSS. he has violated, repeatedly, in every page, not only by spelling the Malay words in a mode never used among the Malays themselves, but by omitting all their peculiar characters, and by using some Persic characters, as pa and ga, with which the Malays are unacquainted altogether, " A short Vocabulary, English and Malayo, with grammar rules for the attainment of the Malayo language," was published at Calcutta in 1798. The rules differ little from those which appear in Howison's Grammar, prefixed to his Dictionary, and the vocabulary generally coincideswith it in the explanation of words, which are not very numerous.

Befides these works which have been printed, many Vocabularies and Dictionaries exist in MSS, in Dutch, English and Portugueze; and of these several are in my possession. RELAND, in his " Dissertatio de linguis Insularum Orientalium," mentions a large MS. Dictionary which he had consulted, composed by LEIDERKER, a Dutch clergyman in Batavia, from which he has selected a specimen of the language. Several smaller Vocabularies of Malayu have been published, chiefly by voyagers and travellers, with various degrees of accuracy. Being geneerally constructed in a very hurried manner, by persons devoid of a radical knowledge of the language, and often, as may be prefumed, under the necessity of expressing their questions by a mixture of signs, they generally abound in very ludicrous errors and rifible mistakes. Of this kind, many instances might easily be selected from LABILLAR-DIERE'S Malay Vocabulary, nor is that published by Professor Thun-BERG, in his travels, entirely free from them. Besides they are generally mixed with a variety of lingua franca, and other eastern words that are never received in correct Malayu.

The facred scriptures, at an early period, began to be translated into the Malayu language: The gospels of Matthew and Mark were sift published in the Malayu larguage and Arabic character at Enchusa, in 1629, in 4to. according to the version of Alb. Corn. Ruyl, and accompanied with the Dutch version. A second edition was published at Amsterdam in 1638. The gospels of Luke and John were published in Malayu, at Amsterdam, in 1646, according to the version of John Van Hasel. Van Hasel and Just. Heurn, in 1648, published "Psalmi quinquaginta priores, Malaicé et Belgicé." The four gospels were repub-

lished, more correctly, with a version of the Acts of the Apostles, by JUST. HEURN, at Amsterdam, in 4to. 1651. Genesis was published in Malay, at Amsterdam, in 1662, according to the version of DAN. BROU-WER, and the New Testament, by the same author, in 1668. A second edition of Genefis was published in 1687. The four Evangelists and the Acts of the Apostles were published "in the Malayan tongue," at Oxford, in 1677, in 4to, and reprinted in 1704. Both editions are in the Roman character, and though HEURN's version was followed, yet the first edition had the advantage of being superintended by the learned HyDE, who has prefixed to it, a differtation on the dialects of the Malay, and the method to be employed in studying the language. The Pfalms, or " Psalterium lingua Malaica et Belgica," was published by VAN HASEL and HEURN at Amsterdam in 1689. The "Psalterium Malaice" was published at Amsterdam in 1735, with musical notes. A complete verfion of the Bible was published at Amsterdam, in Roman characters, in 1733, and this vertion was again published in the Arabic character, with the addition of the Malay peculiar letters, at Batavia, in 5 vols. 8vo. 1758, under the direction of JACOB MOSSEL, Governor General of the Dutch possessions in the East Indies. The persons who superintended the edition were JOHAN. MAURITZ MOHR, and HERM. PET-RUS VAN DE WERTH. A Malay catechism was also composed by GUSTAVUS WILLIAM BARON VAN IMHOFF, and printed at Batavia in 1746. This version of the Bible, is composed in the idiom of Batavia and Malacca, and I have heard it objected, that it is not very intelligible in Sumatra, and other Malay countries; but I regard it as quite impossible to form a Malayu version which would be approved in

point of style, in every Malay country at the same time, for so great is the diversity in point of style between the Javanese-Malayu and the Arabic-Malayu, that even in the same country, those who are proficients in the one, are often scarcely able to understand the other.

JAWA.—The Jawa, or Javanese language, is admitted by the Malays to be that of a more ancient nation than themselves, and at no very distant period seems to have been current through the whole extent of Java. The island of Java was formerly subject to a single sovereign, bearing the title of RATU AGONG OF SUSUHUNANG, of the Susupun race, who generally held his court at Kirripún or Suryakarta. The nation was brave, enterprifing and populous, and before the introduction of the Mahummedan religion, about the year A. C. 1400, their power was supreme in the eastern seas, and they extended their conquests to Sumatra, Borneo, and even as far as the Moluccas. Their voyages often rivalled the celebrated Argonautic expedition in the spirit of adventure. They became known to Europeans only in the decline of their power; yet it was still so formidable as repeatedly to shake the authority of the Portugueze in Malacca itself; and one of the dependent princes of Java was able to fit out a fleet of thirty large veffels, the admiral of which was fo strongly built, as to be reckoned, at that period, cannon-proof. The Jawa language is fubdivided into a great number of dialects, all of which may be respectively classed under the heads of Basa-dalam and Basa-luar, the interior or high language, and the exterior or vulgar language of the coasts. Both of these differ considerably from the Malayu, which has adopted a multitude of terms from the Basa-luar Jawa, or coast language of

Jawa, compared even with which the Malayu language appears to be a corrupt derivative. The language of the interior, however, or the Basa-dalam Jawa, has a close and intimate connection with Sanscrit, and expresses the simplest objects and ideas by vocables which seem to differ no farther from the Sanscrit than in the corrupt pronunciation necessarily produced by the use of a less perfect alphabet. The only Javanese that I have met, who could speak the Basa-dalam Jawa, was not able to write the character; yet I perceived, in forming a short radical vocabulary, that he used many Sanscrit words for common objects, which are not in use in any dialect of Malayu.

The alphabet of Jawa, is peculiar, and has no resemblance in the order of position to the Deva nagari. The number of characters are twenty, and these are varied by four vowels, e, i, u, o, but the real number of vocalic sounds is considerably greater. The Javanese character is written from right to lest. The alphabet has been exhibited with considerable accuracy by Le Brun, and also by Reland; and it appears to have attracted the attention of the learned Hyde, as an "Alephabetum Bantamense," was found among his posthumous papers, which had been written for him by the ambassador of the king of Bantam.

Various ancient inscriptions and monuments are said to exist in the interior of Java, one of which was seen by Thunberg, at Paditúlis, near the blue mountains in the interior of the island, which consisted of eight lines and a half, engraved on a stone pillar, about two feet in breadth. The characters seemed, to him, to be written from right to lest, and no person had been able to decypher them.

THE dialects of Bugelen and Súndo, in Java, are said to be very distinct from the Javanese proper; and, from the suit of them, the language of Súlú is supposed to be derived. This point, however, I have not been able to investigate in a satisfactory manner.

THE literature of the Javanese is similar to that of the Malays, to which it seems to have given origin. Their Kuggawins or Cheritras, contain their mythology, and the adventures of their ancient heroes, and exhibit them in a style which has no inconsiderable resemblance to that of the Hindu Puranas. The Javanese laws are arranged in codes of considerable antiquity, and celebrated among all the eastern islands.

larly cultivated by Europeans, though some of the outlines of their mythological stories have been published in the Transactions of the Asiatic Society in Batavia; as well as some vocabularies of the Jawa language. In the Dutch work, entitled "Begin en voortgang du Oostind. Compan." or the rise and progress of the East India Company, a comparative view is exhibited of the Javanese and Malayu languages. The Mahummedans have translated the Koran into Javanese.

THE Bali and Madura languages, spoken by the inhabitants of the isles of the same name, appear from the best information I could procure, to be dialects of Javanese. The greater part of the inhabitants profess the ancient religion of their ancestors, resemble the Hindus in their appearance, wear the Hindu marks on their forehead, and the women burn themselves with their deceased husbands, according to the practice of the Hindus. Like the unconverted Javanese, they are peculiarly ad-

dicted to the worship of INDRA, SURYA and VISHNU; but being neither in possession of their original religious books, nor of the extracts from them which have been adduced in the Transactions of the Batavian Society, I forbear to dilate on this topic at present.

III. Bu'Gis.—The Búgis may be reckoned the original language of the island of Celebes, in the same manner as the Javanese is that of the island of Java. This ancient, brave, and martial nation, also, became known to Europeans only in their decline, but there are a variety of circumstances, relative to them, which incline me to regard them as probably more ancient, in the eastern seas, than even the Javanese. In courage, enterprize, sidelity, and even fair dealing in commerce, they are placed at the head of all the orang timor, or eastern men, even by the testimony of the Malays and Javanese themselves, and to compare to them, either the Chinese, or the continental Indo-Chinese nations, were to compare an ass, caparisoned in stiff and gilded trappings, to a generous courser. The nation, to which the Búgis exhibit the greatest resemblance, is the Japanese, but I have not been able to discover that the same similarity exists between their respective languages, which appears in their natural characters.

The island of Celebes was formerly divided into seven principalities, which were all united under an elective and limited sovereign. In this state, the island was the centre of eastern commerce, and extended its conquests, on the one hand, as far as the island of Bali, and on the other, beyond the Moluccas. The Búgis language was assiduously cultivated, and their ancient mythology, traditions, laws and history, preserved in

books, the greater part of which are still extant, especially in the interior, among the tribes who still adhere to their ancient religion. On the sea coast, the Mahummedan religion prevails, and their books refemble more the later Cheritras of the Malays. In 1603, the Munghásar Rajah, with the whole Munghásar nation, by one of the most singular revolutions on record, renounced their ancient religion, and not only adopted Islamism, but compelled a number of the inferior states to imitate their example.

The Búgis language, on the coalls, is much mixed with the eastern Malayu, and is found pure only in the ancient books, and in the interior of Celebes. It exhibits strong features of originality in its vocables, but resembles the Malayu and Tăgâla in its construction. With Malayu, Javanese and Tăgâla it exhibits many coincidences, but it contains, in its original state, almost no words of Sanscrit origin. With the ancient Tarnata, or Malacca language, it also exhibits some coincidences, but as I have had no savorable opportunity of studying the Búgis, and none at all of examining the Tarnata, with any degree of accuracy, I cannot pretend to determine the nature of this connection. Compared with the Malayu or Javanese, it has certainly more the air of an original than of a derivative tongue.

THE Búgis alphabet confilts of twenty-two letters, which are varied by the fix vocalic founds a, u, i, e, o, úng. The form of the character is peculiar, though it appears to belong to the fame class as the Batta and Tăgâla. The power of the characters coincides nearly with that of the Javanese letters, though they differ a little both in number and in the

order of arrangement. The form of the Búgís character feems not only to differ considerably, in different states, but the alphabet also varies in the number and order of the letters. This proceeds from the adoption or rejection of the double consonants, which, though used in ancient and classical compositions, are seldom or never employed in letter-writing or common business; and hence, when a Búgís writes down his alphabet, it may vary, in the number of the characters, from seventeen to twenty-two. The only Búgís alphabet, printed or engraved, with which I am acquainted, is that which is given by Forrest, in a corner of one of the maps of his "Voyage to the Mergui Archipelago." The letters are not formed according to the common round Búgís hand, but sharp angled, like the Rájang and Batta character; but in other respects it is sufficiently correct. The Búgís character is also employed frequently in writing Malayu compositions.

The language of the ancient Búgis compositions displays little diverfity of dialect, but considerable variety exists in the language of conversation, in the different Búgis states. The dialect of Munghásar or Macassar, the bravest and most renowned of the Búgis tribes, differs considerably from the Búgis proper; but the dialects of Lúbú, Enréhang, Mandar, and especially Tä-Rajja, seem almost to be different languages.

The Bigis language has never been regularly cultivated by Europeans, though the Dutch have formed abridgements of some of the
historical relations in which it abounds. I have formed a short radical
vocabulary of both the Bigis and Mungkasar, but cannot consider it
as pure and unmixed, being derived from inhabitants of the coast,
though some of them were very intelligent, and tinctured with their pe-

éng,

laniú.

culiar learning. From the same source I obtained the following list of the most popular Búgís compositions:

	37 6 4-1	28.	Rotun-risosů,
I.	Nama Sagúni,	The Assessment	
2.	Batára Guru,	29.	Laga-ligo,
3.	Guru De Sillang,	30.	Tobala Onji,
4-	Tojorisúmpa,	31.	Radaöng Labeh,
5.	Lasini Léléh,	32.	Lamada Romang,
6.	Batára Latoh,	33-	Palawago,
7.	Oputolaga,	34-	Lawaju-Langi,
8.	Araulangi,	35-	Lamapa-puli,
9.	Panori Tawgéh,	36.	Datu-Mowunléh,
IO.	Lajiri-hoi,	37-	Lalúmpang Méga,
II.	Jamuri China,	38.	Lasawung-Langi,
12.	Laurupoysi,	39-	Rotan di Papang,
13.	Rotun Nari-Tatta, Datu Nagima,	40.	Aji Lédéh,
14.	Lamaputoda-Turipo,	41.	Lamapang Aniro,
15.	Latum Mullurung,	42.	Latan-nari-jivi,
16.	Lauhdun-Reö,	43.	Bayapágúli;
17.	Lapa Bichara Lari Sindénaré,	44.	Latupu Sallau,
18.	Gutupatalotopalaguna,	45.	Latúpúgulla,
19.	Lappang Ngarisang,	46.	Latan nari Pulang,
20.	Opu-Sangmuda,	47.	Satya-bonga,
21.	Opula-Maru-Datu-na-Sopeng,	48.	Lasatung-pugé,
22.	Latu-getana Paju Limpoy,	49.	Laga-lego Tokolinghe
23.	Sawira Gading,	50.	Latan naroági,
24.	Adewata,	51.	Datula-Kila,
25.	Rotun Diliwung,	52.	Lapanadora.
26.	Data Pamúsu,	53-	Rotan di timang toan

The greater part of the compositions here enumerated, celebrate the deeds of their national heroes. But besides these, the "Addat," or codes of Búgís law are of considerable antiquity, particularly those of Gua, Waju, Boni and Mandar; and of great repute, among the eastern tribes. Several of them are translated into Malayu and Javanese. The Koran also translated into the Búgís language.

27. Lanaga Ladung,

THE Bugis fongs and romances are famous among all the islands of the East; and, as far as I can judge, from a very limited knowledge of them, equally excel, in force of thought and fluency of versification. The use of rhyme is much less frequent than among the Malays. The melody of the verse depends on the rhythm, and the measure, in the historical poems, has often considerable similarity to some of the species of Sanscrib verse. The following lines are given as a specimen from the "Wépalétei," the only Bugis story in my possession.

Narétélangi napapabaja natokunruna Wepalétel Lalo faliwang pasili aji rito matindro-felimpangi Rittomapiddang fifulingi matduadua mua kakana Wemapamal natijinruna lalu faliwang rutupanimpa Lakunatillum tirrimakudda Wullirijawa to Sopengi Jillokafawa kakapamal lumpuna China tujuna Sabang Naranrukië Lajutenio felumangutnah Pallaungé Mabaliada wemapamal richinaruna kuem mua Megama katu tudangpaliuna linna famanna tuributili Lolangungé turipafabi ujutanai tadillerlé Muarinili aulaun patalutuna lolangungé.

Wepaletei, and went out of the palace, stepping carefully over those who were sleeping in regular rows, and those who were reposing irregularly, where her elder brothers were sleeping two by two, and along with her went out Pamai, her nurse and attendant. Wullirijawa of Sopeng, went forth, and having opened the beautifully formed window, began to express her grief, "O! my elder sister Pamai, point out to me the situation of China (a district in Celebes) and show me in what direction Sabang lies, where Passaunge dwells, the brother of Laju, Tenio." Pamai answered, "see how beautifully, the sloating cloud.

rest on the stately trees of China, as if they had been arranged by art. How beautiful are the lawns, which seem as if the earth had of her own accord accommodated herself to the request of man. How graceful wave the trees, with their soliage to the view, and the golden bamboos which enclose the lawns."

THE Búgis fongs are very numerous. Some of them are short proverbial maxims versified, and display considerable force of both thought and language, but I have not met with any which exhibit the peculiar character of the Malayu Pantún. They however exhibit many traits of the peculiar manners of the Búgis tribes. In the following specimens, the first alludes to a very common mode of punishing cowardice in Celebes, the second to the practice of poisoning weapons, and the last is a brief dialogue between a lover, going to battle, and his mistress, who presents him with her betel-box as a parting token.

Tikkungi talaféi joa maliäi

Tapafilaféi andraguru maliäi

Corripe militem fegnem, castra,

Immo ducem timidum castrato:

Tillu ritumati balubalu rilléléang

Ria paserakané lanru tojirru

Tümera ritirilébu dadi aju ta Sangala.

There are three articles exposed to fale

In the clash of combat—the temper of the lance—

The form of the bullet—and the gum of the poison tree of Sangala.

Eja ripalinrung ajamu marakka filla
Rikóä biritta poli riálapi sía
Raja-Túmpa rikapéku muinappa rinnawating—
—Tilla returona falina lopalopaku
Sapahna rikko otáko tindria pauwa
Timmunroä parúparung tindria kampulajangang.

Eja! object of my secret affection, be not easily moved to grieve,

Whatever news arrive from the battle, till you see

My kris Raja Tumpa taken from my girdle, but then grieve for the dead—

—There are three prohibitions in my betel-box, with which you must conform:

They are wrapt up in the folds of the betel leaf,—talk not in the time of action—

Loiter not idly within your tent—skulk not as you advance on the foe.

The Mungkásar poetry is characterized by the same seatures as the Búgís, and their national wars with the Dutch is said to be a savourite topic among the poets of that race. The following specimen, which is a poetical challenge, alludes to the diversion of cock-sighting, the savourite amusement of the nation.

Kérimi jangang riwaya bija jangang fundawa Niamiunné búngafa tinumbukkéya—— Bukki tonja kontafilla púna inukké núrúntu Tinumbukkéya bára éyapún nifillung.

Where is that courageous cock, that true game-cock, trained to combat—
For here is his match, full of youthful spirit, yet unconquered—
Let him then enter the lists with me, if he would be conquered;
Hitherto invincible, if I am ever conquered, it will be now—

IV. Bima.—The Bima language is used in the independent state of Bima, which includes the eastern part of Sumbawa, and the western part of the island Endé, which was childishly denominated Flores, by the early Portugueze navigators; and, after them, by succeeding voyagers and geographers. If my information is correct, the Bima language extends over the greater part of the island Endé. The Bima language is related, in some respects to Búgís and Javanese, and on the coast is mixed with Malayu; but nevertheless it has strong pretensions to originality in its pronouns, verbal auxiliaries, and simple names of objects. In those instances, in which it exhibits a relation to the Búgís, it sees

to be more closely connected with the Mungkasar than the Bugis proper, and yet, in sentences, the difference is striking, as in the following example. "Where is the house of the Rajah?" Bikey kuassi rumata sangngaji. (Bima) Kéré tujuna embana kérayéng. (Mungk.) The fun, in Bima is termed Mata-liro; in Mungkásar, Matulo; in Búgís, Mataso. A man, in Malay, orang, is, in Mungkasar and Bugis, tau; and in Bima, do. The dialect of Sumbawa, which prevails in the districts of the island of that name, which are not subject to the Sultan of Bima, is of a more mixed character, and though it appears to contain many original vocables, yet the mass of the language seems derived from other sources. as Bima, Javanese and Búgís. Neither the Bima nor Sumbawa have any peculiar character, but use, indifferently, the Bugis or Malayu. I attempted to investigate the relations of both of these languages, by forming comparative vocabularies of radical words; but not being able to procure any compositions in either of them, I do not flatter myself with having been able to obtain the purest native terms in every instance.

Specimen of the Bugis, Mungkasar, Bima and Sumbawa languages.

	Búgit.	Mungkasar.	Bima.	Sumbawa.
	ſië -	inukké	nahu	6k, kaji
1	liyo	iyo	lamada	déya
we	ídi	ikaté	íta	kita
thou	mu	ikau	angomi	mu .
you	iko 🧽	ikau-ngáfing	gomi	kau
he	că neă	yenjo	feä	iya
they	eämanúng	yangafing .	do édé	jija talinan
this	iäé .	yeïnné	aké	ta
The least	yero, yetu	anjoreng	6d6	to

The Park	Bügis.	Mungkasar.	Bima.	Sumbawa.
who	iga, niga	inai	choété	faí
what	aga	apa	au	komépo
where	pegi	kemi	benchi	mépo
when	fiana	ungapana	bunéši	pidan
which	kéga	kerayéng	mabó	fangmépo
is gentalA	unka	nia	wara	adda
will	mélo	eroko	né	roa
can	makúléh -	kűlégi	Vau	bau
fun	matafo	matalo	mataliro '	matahari
moon	ulúng	búlun	wūra	būlun
flar	vitóing,	bintoéng	tara	bintang
wind	anging	angi	angi	angin
rain	boli	boli .	ura	újin
day	afb	alo ·	lire	ano
night	wunni	bungi	aimangadi	anopotang
morning	616	beribafa	aimalidi	anoliop
evening	arawéng	karvéng	aimumbiyang	anoravi
year	taung	taung	baä	terő
earth	tana	bûrta	dana	bumi
water	uwaï	jéné	oi	aik
fea	tâli	tamparang	moti	1ét
river	falók	binanga	nanga	pungburang
wave	bomba	bombang	balúmba	omak
fand	kafi	kafi	farei	garfék
mountain	búlúk	monchong	doro	olat
fire	api	pêpê	afi	api -
ftone	batû	batú	watû /	batů
gold	ulawûng	bulayeng	máfanganga	bulayéng
filver	faláka	faláka	faláka	faláka '
falt	pājē	chéla	siya	síra
iron	billi	bafi	- besi	bofi
lead	túmera	túmbéra	tumbinga	tima
brafs	tûmbaga	túmbaga	romba	tomaga
white	maputi	kébok .	lanta	puti
black	malôtong	leling	meë	pifak
red	machillah,	ėja	kala	méra
yellow	malini	kuni	moncha	kúning -

THE PARTY	Búzis.	Mungkasar.	Bima.	Sumbawa.
green	monchombúlo	ijow	awa	ijow
blue	magaü	gau	kolúbu	kolau
fifh	balé	júku	londé	ampa
fowE	manu	jangang	janga	ayam
bird	manu-manu	jangang-jangang	nafi	piyo
tiger	machang	machang	machan	machan
ferpent	ula	ulara	fawa	ula
fheep	bembé	bembé	béë	badésa

This specimen of a comparative vocabulary, will convey some idea of the actual state of these languages, and of the actual variety which fubfilts in the language of conversation, especially on the coasts and maritime districts. Many of the words which occur in one language, are also found in others, though generally with some difference of pronunciation, and fometimes in an oblique fense. Frequently too, befides the terms which I have felected, which are only those of current use, several other words of the same signification might be found within the compass of the language. Thus, instead of anging, wind, in the high Bugis, salarung occurs in this fignification; and instead of salaka, filver, bulémata occurs in the high Mungkasar dialect. In the same manner, the personal pronouns in Bugis terminate their plurals in manung, and in Mungkasar in ngasing, both of which fignify all. Thus, (Búg.) idimanung, (Mung.) ikuttengásing, we all. (Búg.) ikomanung, (Mung.) ikaungasing, you all. (Bug.) eamanung, (Mung.) yenjo yangngasing, they all. It is worthy of observation, that the Udia language spoken in Orissa, forms the plural of its personal pronouns by the addition of the particle mane, or manang, like the Bugis. Thus, in Udia, umbhémane, tumbhemaní, sémané or émané, fignify we, ye, they.

V. BATTA.-The Batta language, which I regard as the most ancient language of Sumatra, is used by the Batta tribes, who chiefly occupy the centre of that island. The fingularity of their manners, and in particular the horrid cultom of anthropophagy, practifed by a nation in other respects more civilized than the Malays by whom they are furrounded, has attracted the attention of Europeans from the time of the earliest voyagers to our own times, but no very fatisfactory account, has ever been given of them, as a nation. The best description of them is certainly given by MARSDEN, in his history of Sumatra, but even that is very imperfect and superficial, and at variance, in some respects, with the information I received from individuals of the nation. MARSDEN confines their cannibalism to two cases; that of persons condemned for crimes, and that of prisoners of war; but they themselves declare, that they frequently eat their own relations, when aged and infirm, and that, not fo much to gratify their appetite, as to perform a pious ceremony. Thus, when a man becomes infirm and weary of the world, he is faid to invite his own children to eat him, in the feafon when falt and limes are cheapest. He then ascends a tree, round which his friends and offspring asfemble, and as they shake the tree, join in a funeral dirge, the import of which is, " The feason is come, the fruit is ripe, and it must descend." The victim descends, and those that are nearest and dearest to him, deprive him of life, and devour his remains in a folemn banquet. This account is certainly more likely to excite incredulity than the account of MARSDEN, but it is the account of some of the Battas themselves, as well as that of the Malays in their vicinity. This inhuman customis not, however, without a precedent in history, for HERODOTUS politively afferts, that the Paday or Padaioi, about 500 years before our zera, were not only addicted to the eating of raw flesh, but accustomed to kill and eat their relations when they grew old. Now it is curious that Batta or Batay, for the name is written both ways, feems to be the very word which, in Greek, is rendered Padaioi, the letter p being almost always pronounced b among several of the Indo Chinese nations, as in the word Pali which is almost always pronounced Bali. The following is the account which HERODOTUS gives us of the Paday, or Padaioi. " Another Indian nation, who dwell to the eastward of these, (the Indian Ichthyophagi) are of nomadic habits, and eat raw flesh. They are called Paday, and are faid to practife fuch customs as the following. Whoever of the community, be it man or woman, happens to fall fick, his most familiar friends, if it is a man, kill him; faying, that by his pining in fickness, his flesh will be spoiled for them; and though he deny that he is fick, they do not attend to him, but put him to death, and feast on him. When a woman falls fick, she is treated in like manner by her most intimate female affociates. They also facrifice and feast on him who arrives at old age, and this is the reason that so few of them ever attain it, for they kill every one who falls fick, before that period." This account of HERODOTUS certainly corresponds very minutely with the customs attributed to the Batta race, and renders it probable that this modern nation derive their origin from the ancient Paday or Batay. Neither is it more incredible that the Battas should eat human slesh, as a religious ceremony, than that anthropophagy should be practifed by the class of mendicants termed Agora Punt'h, in Bengal, and other parts of India, which

^{*} HEROPOT. Lib. III, s. 99.

is a fact that cannot easily be called in question. It is surprizing that this singular custom has received so little investigation.

THE names of the different Batta tribes, of whom I have been able to hear, are the following—

- 1. Batta Sebalungu,
- 2. Batta Padembanin,
- 3. Batta Kwalu,
- 4. Batta Pannay,

- 5. Batta Toru,
- 6. Batta Bila,
- 7. Batta Kurulang,
- 8. Batta Sipagabu.

In many of the Batta customs, considerable similarity to those of the Nairs of Malabar may be traced, as in the law of inheritance, according to which it is not the son, but the nephew, that succeeds:

The Batta language has considerable claims to originality, though it is not only connected with the Malayu, but also with the Bügis and Bima languages. In point of construction it is equally simple as the Malayu, but it is with the Bügis that it seems to have the most intimate connection. Indeed, the manners of the aboriginal Bügis are supposed to have exhibited no small resemblance to the peculiar customs of the Batta nation; for the Rajja or Tă-Rajja tribe, in the central parts of the island Celebes, are faid still to eat their prisoners of war. The Batta language is the chief source of that diversity of dialect which is discoverable in the languages of Sumatra. The Răjang or Rejang dialect is formed by the mixture of the Batta and Malayu; the Lamping, by mixing Malay and Batta with a proportion of Javanese. The Karrows, who are subject to Achi or Achin, use only a slight variation of the Batta language, while the language of Achi proper consists of a mixture of Malayu and Batta, with all the jargons used by the Mos-

lems of the east, whether Hindustani, Arab-Tamul or Mápilla. The Achinese resemble the Mápillas of Malabar more than any other tribe of Malays: they have long been connected with them as a people, and use many Mápilla terms currently in their language. The dialects of Néas and the Poggy islands, the inhabitants of the latter of which are termed Mantaway, by the Malays, have perhaps greater pretensions to originality than any of the dialects of Sumatra, but resemble the Batta more than any other dialect. Hence it may be suspected, that if we were acquainted with the books of the Battas, and knew the full extent of their language, in all its variety of expression, elliptic phrases, and obsolete words, the coincidence would be still more striking. There is probably, too, some diversity of expression in these dialects, even in their present state, for in forming a short radical vocabulary of the Néas language, I sound it differed considerably, in some instances, from the specimen published by Marsden, in the fixth volume of the Archæologia.

THE Batta language has been cultivated by writing, from the earliest times, and numerous books are said to exist in it. I have only been able, however, to procure the names of the following—

- y. Siva Marangaja,
- 3. Raja Isiri,
- 2. Siva-Jarang-Mundopa,

4. Malamdeva.

THE Batta alphabet is peculiar, both in the form of its characters, and in the order of their arrangement. It confilts of nineteen letters, each of which is variable by fix vocalic founds like the Búgís. In the power of the letters, it nearly corresponds with the Búgís and Javanese alphabets, the difference between all these being extremely trisling, confishing

folely in one of them exprefling two cognate founds by one character, or adding a new character, or the modification of a character, to express a double confonant of frequent recurrence. But the Batta character has another peculiarity; it is written neither from right to left, nor from left to right, nor from top to bottom, but, in a manner directly opposite to that of the Chinese, from the bottom to the top of the line, as the Mexicans are to faid to have arranged their hieroglyphics. The material for writing is a bamboo, or the branch of a tree, and the inftrument for writing the point of a kris, confequently their native forests always furnish them with materials in abundance, and instead of our pages and volumes, they have their bamboos and literary faggots. MARSDEN has given a tolerably correct Batta alphabet, in his history of Sumatra, but instead of placing the characters in a perpendicular line, he has arranged them horizontally, which conveys an erroneous idea of their natural form. The Battas, sometimes, read their bamboos horizontally instead of perpendicularly, as the Chinese and Japanese do their books, but the Chinese confider the correct mode of reading to be from the top to the bottom of the page, and the Battas from the bottom to the top. The lines at the top of a Chinese page are always regular, and if a line terminates in the middle of the page, the blank space is towards the bottom; now the Battas fometimes write on growing trees; and in this case, if a blank space occurs, it is towards the top of the division, a circumstance which determines what they confider as the natural polition of their characters. The Batta characters, when arranged in their proper polition, have confiderable analogy to the Bugis and Tagala. The Lampung and Rajang characters coincide in power with those of the Batta, though the arrangement is different, and so far from being considered as original alphabets, they are only regarded, as far as I could learn, by the Battas, as different forms of the same character. Indeed, the greater part of the differences they exhibit in form, may be fairly attributed to the different materials on which they write, and the different manner of writing; while the diversity in the number and arrangement of the letters may be referred to the same causes which have produced a similar variety in the Búgis alphabet.

VI. TAGALA.—The Tagala or rather Ta-Gala or the Gala language is among the Philiopines, what the Malayu is in the Malay islands or the Hindustani in Hindustan proper. A Spanish missionary, who possessed a minute knowledge of this language, has declared, that "The Tagála possesses the combined advantages of the four principal languages in the world. It is mysterious as the Hebrew; it has articles for nouns, both appellative and proper, like the Greek; it is elegant and copious as the Latin; and equal to the Italian, as the language of compliment or bufiness." To examine rigorously the justness of this eulogium, is foreign to my purpose; it is necessary only to state, that it is confidered by those who have studied it with most attention, as the radical language, from which the greater part, if not all, the dialects of the Philippines are derived. A missionary, who had resided eighteen years in these islands, and whose account of them has been translated from the Spanish, and printed by THEVENOT in the second part of his " Relations de divers Voyages Curieuses. Paris 1664," declares, that though every district has its particular dialect, yet that these have all some relation to each other, such as subsists among the Lombard, Sicilian

and Tuscan dialects. There are fix dialects of this kind, in the island of Manila, and two in Oton. Some of these are current in several islands, but the most general are the Tăgâla and Bisaya, the last of which is very gross and barbarous; but the other more refined and polished. The opinion of this missionary is confirmed by Fra. Gaspar de San Augustin, who afferts, that all these particular tongues are dialects of one general language, in the same manner as the Attic, Ionis and Æolic, are all dialects of Greek, or as the Italian, Spanish, Portugueze and French, are all derivatives from the Latin.

The Tăgâla language has been cultivated only by the Spanish miffionaries. The Tăgâla grammar of Fra. Gaspar de San Augustin, which has passed through two editions, was printed in 1703, and again in 1787. In his presace, he requests those who are desirous of more numerous examples in the language, to have recourse to other grammars, especially, to that of Fra. Francisco de San Joseph, who is essewhere called the Demosthenes of the Tăgâla language. A consessional, by the same author, in Spanish and Tăgâla, was published in 1713, and republished with the second edition of his grammar. In 1627, Fra. Alphonso â St. Anna published his "Explicacion de la Doctrina Christiana en lingua Tăgâla," and, besides these, many other religious compositions, both in prose and verse, have been published by the missionaries.

THE Tagala alphabet confifts of seventeen letters, three of which are vowels, and fourteen confonants. It is of the same class as the Búgis and Batta alphabets, and resembles them much in form: and, it is probably from some idea of this similarity, that FRA. GASPAR DE SAN Aucustin, afferts that the Tagala characters were derived from the Malays.

The Tagala character is as difficult to read as it is easy to write. It is written with an iron style on bamboos and palm leaves, and the Spanish missionaries affert, that the ancient mode of writing was from top to bottom, like the Chinese. From the circumstance of their writing with an iron style on bamboos, and from the resemblance of the letters to the Batta character, I should rather imagine that the ancient Tagala mode of writing was from the bottom to the top. The Tagala characters are still used in Comintan, and in general among the Tagalas who have not embraced christianity; and even by the Christian converts, they are still preserved in epistolary correspondence, though the contratry has been infinuated by some of the missionaries, who alledge that the roman alphabet was eagerly adopted, on account of its being more easily read.

The Tazála language, with a confiderable number of peculiar vocables, and great fingularity of idiom; is nevertheless to be confidered as a cognate language with Malayu, Búgis and Javanese. Few languages, on a cursory examination, present a greater appearance of originality than the Tāzāla. Though a multitude of its terms agree precisely with those of the languages just enumerated, though the more simple idioms are precisely the same, and though the nouns have neither, properly speaking, genders, numbers nor cases, nor the verbs, moods, tenses or persons, yet the idioms are rendered so complex, and the simple terms are so much metamorphosed, by a variety of the most simple artisces, that it becomes quite impossible for a person who understands all the original words in a sentence, either to recognize them individually, or comprehend the meaning of the whole. In illustrating, therefore, the mecha-

nism of language, few languages are more instructive than the Tagala. The artifices which it chiefly employs, are the prefixing or possining to simple vocables, certain particles, which are again combined, and coalesce with others; and the complete or partial repetition of terms, in this reduplication, may again be combined with other particles.

THE Tagala forms the plurals of nouns by the word manga, as the Malays by banya'k, both of which fignify many, and feem to be the very fame word, as the m and b are often pronounced in such an indistinct manner, in the Inda-Chinese languages, that they feem neither to correfpond exactly to our m nor our b, but to an intermediate found. To proper names, the Tagala prefixes the particle si, and ang to appellative nouns. The first of these corresponds to the Malayu sa, and the latter to yang, both of which are frequently used in Malayu in the same manner; but the Tagaila combines both these with the particles nya and ka, the first of which signifies of it, and the latter to; and thus they form sina, kana, nina, nang, which, (except the last, which is only a different mode of writing the Malayu nyang, of these, who,) scarcely occur in Malayu. The plural of nouns, in Malayu, is sometimes formed by the repetition of the fingular, and sometimes this repetition is not complete, but confifts only of the first fyllable or fyllables. This also occurs in the Tagala, in which language banal, the Malayu banar, fignifies just, true, and tavo fignifies a man, corresponding with the Búgis tau. A just man, in Tagala, is therefore, ang banal na tavo, or by the addition of another particle, and altering the polition of the words, ang tauong banal. Now if we substitute the Malayu word orang, for the Búgís and Tagála term tau or tavo, we may render both these sentences thus; yang orang yang benar, and yang benarnya orang. In the plural, to fignify, just men, the Tagála gives, ang manga tauong babanal, to which the corresponding Malayu phrase is, yang banyák orang yang babenar; or again in Tagála, ang babanalna manga tavo, to which the corresponding Malayu is, yang babenarnya banyak orang.

THE fimple pronouns, which vary so much in all the dialects of the eastern seas, are nearly the same in Tagála and Malayu, though it is not very eafy to recognize them in the former language when combined with particles. Thus in the first person ako, ko, kita, kami are pure Matayu; and in the fecond person, mu corresponds equally with mo, while itao and iyo feem to be only trivial variations of the Malayu ungkau and ayo. In the third person siya is only a variety of sa yea like siappa for sa-appa, who, in Malayu; while niya, of him, his, is pure Malayu, as are itu, that, and nin of this, while yan, this, and yain, that, correspond to int and anu. It is however chiefly in the verb that the peculiar character of the T_a . gala language displays itself. The substantive verb is generally omitted altogether, and its meaning is denoted by implication, or the polition of the words in a fentence. Sometimes, however, it is expressed by the article ay, the contraction of the Malayu adda, as Sino ang masipag? Who is diligent? or rather, Who is he who is diligent? Ang masipag ay si JAGULA, it is JAGULA that is diligent, or literally, he who is diligent is one JA-GULA.

THE Tagala verbs being only names of actions or states of existence, they cannot properly be faid to be either active or passive, neither have they any persons, numbers or moods: all these being expressed by particles prefixed or possifixed to the radical word. The principal par-

ticles employed in modifying the Tayala verbs are also common to the Malayu language. The Tăzála particles are na, nag, mag, pag, ungm, y, an, in: those which correspond to them in Malayu are na, nyang, meng or me, peng, yangmeng, yang, an, ahin. Their fignifications are radically the fame, nor do they differ effentially in their simple application; but in the variety of modes according to which these particles may be combined with the verb, in its simple form, in its reduplicate form, in its semi-reduplicate form, and the variety of transpositions of letters and the changes of one letter for another, euphonia gratia, which all these combinations giveoccasion to; in all these, the Tagala is infinitely superior to the Malayu, if there is any merit in a superiority which confists in greater intricacy. The changes which occur in Malayu are few and obvious, in Tagála they are digested into an extensive and complex system, in which perfect familiarity with every form that the word can affame, not only by the addition of particles, but by the interchange of letters, is necessary to enable a person to detect the radical, which is often more disguised than in the most complex Arabic derivatives. Thus in Tagala the root tolog fignifies to fleep, natalog ako I flept, natotolog ako, I am fleeping, matalog, fleep, matotolog ako, I will fleep, katolog, pagkatolog and pagkakatolog, fleeping, natotologpa ako, I slept or was sleeping, ang natotolog, the sleeper, ang matotolog, the person who is to sleep, nakatolog ako, I had slept: natologan,. the having been affeep, natotologan, the being affeep, katologan and kutotologan, the being alleep, or act of fleeping, or the fleeping place: and for the plural nangatologan, nangatotologan, pangatologan, pangatotologan &c. the particles na, ma and pa, becomin; nanga, manga and panga, in the plural. This is an instance in which the changes of the radical word

are very obvious; in the following they are less so, buhat to list; bungmuhat, bungmubuhat, bumuhat, bubuhat, pagbuhat, nakabuhat, nabuhat, binuhat, binuhat, buhatin, bubuhatin, nagpabuhat, nagpapabuhat, magpapabuhat, pagpabuhat, pagpapabuhat, pinabuhat, pinabuhat, muhat, namuhat, namumahat, mamuhat, mamumuhat, pinamuhat, pinamamuhat, pamuhatin, pamumuhatin. The addition of a greater number of particles would fill produce a considerable number of additional metamorphoses, in which it would be very difficult to recognize the original radical buhat; but these may suffice to shew the genius of the language; and they will also tend to shew the extreme danger that any etymologist or grammarian incurs, who presumes to treat of one of the eastern languages without a radical knowledge of it, and even, in some degree, of its cognate dialects.

THE greatest desects of FRA. GASPAR DE S. AUGUSTIN'S Tăgâla grammar proceed from his not having comprehended sufficiently the original simplicity of the dialect, nor even the simple artisice by which the greater part of these changes have been effected; and from having composed his grammar on European principles, without attending uniformly to the peculiar character of the language.

WITH respect to the original literature of the Tagálas, the accounts of the Spanish missionaries are rather discordant. Sometimes they represent them as totally devoid of histories, and books of science; and sometimes they represent them as in possession of many historical poems; not considering that almost the whole body of eastern history must be gleaned from poetical tradition. It however appears, clearly enough, from their own ac-

counts, that the ancient religious traditions of the Tagala race, their genealogies, and the feats of their gods and heroes, are carefully preserved in historical poems and fongs, which, in their youth, they carefully commit to memory, and are accustomed to recite during labour and long voyages, but particularly at their feltivals and folemn lamentations for the dead. These original memorials of the race, the missionaries have, with pious care, attempted to extirpate, and have employed themselves fedulously in composing religious tracts, both in profe and verse, in the Tagála, with the hope of supplanting the remains of national and pagan antiquity. Many pfalms and hymns, and even fome of the Greek dramas composed by Dionysius Areopacita, have in this manner been translated into the Tagala language. Among this brood of Tagala poets, the names of FRA. ANTONIO DE S. GREGORIO, OF FRA. ALONSO DE S. ANA, and of FRA. PABLO CLAIN, the translator of Kempis, into Tagála, are celebrated, but the most illustrious of them all, says the reverend father GASPAR DE S. AUGUSTIN, is FRA. PEDRO DE HERRERA, the very HORACE of the Tagala language, as appears by his book of " Postrimerias." With the original Tagala poetry I am unacquainted, and I believe no specimen of it has been hitherto published. S. Augustin, in his grammar, treats, indeed, of Tazala poetry, but he piously confines his examples to the works of his ghostly brethren. He observes, that the Tagála verse, is only regulated by the rhythm of the syllables, and the fimilarity of the vowels in the close. This fimilarity of the terminating vowels does not amount to regular rhyme, for the confonants may be totally different, though the vowels are fimilar, as in the Spanish rhymes termed Asonantes. Thus laglag and taltal sut and cahuy, silip and bukkir,

however imperfect as rhymes, are all that is required in the terminations of Tăgâla verse. The Tăgâla metres, adds the same author, are rather lyric than heroic, and he adduces specimens of several Latin and Castilian measures, imitated in that language, besides a legitimate sonnet, addressed to himself, on publishing his Tāgâla grammar by FRA. JOSEPH DE EL VALLE. The following specimen from the Tāgâla version of one of the dramas of Dionysius Areopagita, is an imitation of the comic verse of Terence.

Dito fa dakkilang kaharian nang Grecia Ay itong bayannang Athenas lalo, at mona Sa ibang manga bayang na fafakop baga Hangan faona, at magpangayon pa.

Besides the Tagála nation, there are several other races, which inhabit these islands, who differ considerably from each other in seatures, language, and the various relations of the social state; but concerning them, it is more difficult to speak with any degree of certainty. Such are the Pampangos, who reside to the north of Manilla; the Bisáyas, who are generally disfused over the Philippines; and the painted race, termed, by the Spaniards, Pintados, who are, by some, reckoned a branch of the Bisáya nation, and allied to the Tagála and Búgís races; while, by others, they are supposed to be of the same origin as the Haraforas.

Or the Bisaya language, I have seen some lists of words. It appears to be either mixed with Tagála, or derived from the same source; but it is seldom possible to judge of any of the eastern languages from a few straggling specimens, formed in the hurried, inaccurate and incurious manner in which these are generally collected. For this reason, I shall offer no observations on the Pampango language, of which I have also seen

specimens; on the Biaju, Tirún, or Idán languages of Borneo; nor on the Harafora, or the Papua languages of the castern isles. The Súlú tongue is a very mixed dialect, but is derived chiefly from the Malayu, Javanese and Tăgâla. FORREST, however, is inclined to refer its peculiarities to the Bisava. The language of Melindenow, or Magindano, which nearly coincides with the Lanun dialect, is also a compound of Malayu, Bugis and Tagála, with a certain proportion of the ancient Tarnata or Molucca language, which feems to have been an original tongue. The Biaju language is reckoned original, but it has no written character. The Biajus are of two races; the one is settled on Borneo, and are a rude, but warlike and industrious nation, who reckon themselves the original possessors of the island of Borneo. The other is a species of sea-gypsies, or itinerant fishermen, who live in fmall covered boats, and enjoy a perpetual fummer on the eastern ocean, shifting to leeward, from island to island, with the variations of the monfoon. In some of their customs, this singular race resemble the natives of the Maldive islands. The Maldivians annually launch a small bark, loaded with persumes, gums, flowers and odoriferous wood, and turn it adrift at the mercy of the winds and waves, as an offering to the Spirit of the winds; and fometimes fimilar offerings are made to the spirit whom they term the King of the Sea. In like manner the Biajus perform their offering to the god of evil, launching a small bark, loaded with all the fins and misfortunes of the nation, which are imagined to fall on the unhappy crew that may be fo unlucky as first to meet with it

THE Tirún or Tedong tribes live chiefly on the N. E. coast of Borneo, and are reckoned a savage and piratical race, addicted to eating

the flesh of their enemies. With their language I am totally unacquainted, but it is reckened peculiar. It is very probable, however, that they are only a tribe of Idán, whom, again, I imagine to be only a race of Haraforas or Alfoers, as they are termed by the Datch, who feem to the most ancient and original race of all the eastern islands, excepting, perhaps, the Papuas. The Idan are sometimes termed Marút; they are certainly the original inhabitants of Borneo, and refemble the Haraforas equally in stature, agility, colour, and manners. The Haraforas are indigenous in almost all the eastern isles, and are sometimes found on the same island with the Papuas or oriental negroes. They are often lighter in colour than the Muhammedan races, and generally excel them in strength and activity. They are universally rude and unlettered, and where they have not been reduced to the state of slaves of the foil, their manners have a general resemblance. In their manners, the most fingular feature is, the necessity imposed on every person, of fome time in his life, embruing his hands in human blood; and in general among all their tribes, as well as the Idán, no person is permitted to marry till he can shew the skull of a man whom he has slaughtered. They eat the flesh of their enemies, like the Battas, and drink out of their skulls; and the ornaments of their houses are human skulls and teeth, which are, confequently, in great request among them, as formerly in Sumatra, the ancient inhabitants of which are faid to have originally had no other money than the skulls of their enemies. The Haraforas are found in all the Molucras, in Celebes, the Philippines, and Magindano, where they are termed Subano or Manubo; and the ferocious race mentioned by MARSDEN, who live inland from Samanka in Sumatra, and

are accustomed to atone their own faults by offering the heads of strangers to the chiefs of their villages, are probably of the same description.

THE Papuas, termed by themselves Igoloté, but by the Spaniards of the Philippines, negritos del monté, from their colour and woolly hair, are the fecond race of aborigines, in the eastern isles; in several of which they are still to be found, and in all of which they feem to have originally existed. Some of their divisions have formed small savage states, and made some advances towards civilization; but the greater part of them, even with the example of more civilized races before their eyes, have betrayed no fymptoms, either of a talle or capacity for improvement, and continue in their primitive state of nakedness, sleeping on trees, devoid of houses or cloathing, and subsisting on the spontaneous products of the forest, or the precarious fuccess of their hunting and fishing. The natives of the Andaman isles feem to be of this race, as also the black mountaineer tribes of the Malay peninfula, termed at Kiddeh, Samang; at Perak, and in the Malay countries to the N. W. of Kiddeh, Bila; while to the fouthward of Pena'k, and through the straits of Malacca, to the eastward, they are termed Dayak. The Papuas, or oriental negroes, feem to be all divided into very small states or rather societies, very little connected with each other. Hence their language is broken into a multitude of dialects, which, in process of time, by separation, accident, and oral corruption, have nearly loft all refemblance. The Malays of the peninfula, confider the language of the blacks of the hills as a mere jargon, which can only be compared to the chattering of large birds; and the Papua dialects, in many of the eastern isles, are generally viewed in the same light,

THE Arabs, in their early voyages, appear to have frequently encountered the Papuas, whom they describe in the most frightful colours, and constantly represent as cannibals. They are mentioned by the travellers IBN WAHAB and ABU-ZEID, in the Silsilet-al-Tuarikh, translated by RENAUDOT, and nearly the same accounts feem to be repeated by Ma-SUDI, YAKUTI and IBN AL WARDI. The following paffage, which gives the name of one of the tribes, is adduced from the Persic treatife termed Seir ul Aklim, the author of which appears to have visited the eaftern islands. After mentioning the great island of camphor, probably Borneo, he adds, " Beyond this are other islands of different fizes, among which there is one of confiderable extent, inhabited by a race of blacks termed Kahálut, who resemble brutes in form, and when they can seize on a person, they kill and eat him. Of this practice, I have had experience, having escaped only by throwing myself into the sea; as the faying is, 'when you are going to be flain, throw yourfelf into the fea, and perhaps you may furvive.' Even so it happened to me, for getting on the trunk of a large tree, I kept my hold for three days, when I was thrown by the force of the winds and waves on a defart shore, and after enduring much hunger and thirst, reached, at last, an inhabited country."

The tribes of the eastern islands exhibit a variety of singular and interesting appearances, not only in the civil and political, but also in the natural and moral history of man. If some of them appear in a naked and primitive state of barbarism, in others the vestiges of ancient art and science indicate, that they have suffered a relapse from a prior state of civilization. This is particularly obvious among the Malay, Javanese, Batta and Búgis tribes, among whom the polished

ftyle, and elevated fentiments, of many of their compositions, and their dexterity in some of the arts, especially the compounding and working of metals, form a fingular contrast with the neglect of perfonal morality and the relaxation of all the bonds of fociety; while ancient and wife regulations are in a great measure superfeded by the most abfurd and barbarous usages. Among the most barbarous of the Harafora and Papua races, there are some, who whether male or female, use no species of cloathing whatsoever, and consequently exhibit few traces of that modesty which is supposed to be innate in the human species. The same phænomenon, whether natural or produced by fituation, is exhibited among the Biajus, the families of whom live constantly together, on the sea, in small boats. Vestiges of cannibalifm appear to exist among the greater part of the rude tribes in the eastern isles, but the Battas of Sumatra, who are superior to the Malays in the knowledge of the arts and letters, have likewise preserved it; as well as the Tabunka tribe in Celebes. Of many of the most abfurd, unnatural and barbarous of their usages, it is obviously impossible to form a just opinion in the present state of our knowledge, as we are totally ignorant of the spirit of them, and of the system of opinions with which they are connected. Some of them may find a parallel in India and China; and it may be observed, that both the Indian and the Indo-Chinese monuments contain many allusions to a state of society and manners on the continent fimilar to that which fablists among the most barbarous of the tribes of the eastern isles. Perhaps, too, we shall be disposed to regard, with some degree of complacency, the most absurd and the most illiberal portions of the religious systems of BRAHMA

and Budd'HA, if we consider the dreadful superstitions that they probably supplanted, and the brutal state of savage existence which they exchanged for civil polity and focial order. The Vanaras of Hunuman are reckoned a tribe of mountaineers, even by many of the Hindus. The barbarous, but brave and active Idan of Borneo are termed Marit, which is the Sanscrit name of the forty-nine regents of the winds, and companions of INDRA. The standard of the Battas is a horse's head with a flowing mane, which feems to indicate a connection with the Hayagrivas of Sanscrit history. In the present state of our knowledge of these tribes, however, it is not conjecture, but rigid and accurate description that is required; and, in the present instance, it is not my object to consider their civil, political or moral relations, unless as far as these affect the philological investigation of their languages and literature. As the chief utility that refults from the examination of some of these ruder dialects, is to enable us to ascertain the limits of languages, more interesting, and important, perhaps it may be thought that great minuteness would be misapplied on objects of such secondary importance. It must, however, be recollected, that success in important researches, often depends on the accuracy with which inferior investigations have been conducted; that, in commencing an investigation it is not always eafy to predict what will ultimately prove of superior, or inferior importance; and that, at all events, it is fafer to bestow too much attention, than too little, on what must be the basis of historical investigation. In all fuch inquiries, I therefore do not helitate to adopt the fentiment of the learned LE Long, that "Truth is fo interesting and satisfactory,

when perceived, that no pains should be spared to discover it, even

VII. RUKHE'NG .- The Rukheng is the first of that singular class of Indo-Chinese languages, which may be properly termed monofyllabic, from the mass of their radical words consisting of monosyllables, like the spoken dialects of China. These monosyllables are subjected togreat variety of accent, and intonation, in almost every instance : and require an accuracy of pronunciation and a delicacy of ear in speaking and comprehending them, far beyond what is requifite in the languages of Europe, or even in the polyfyllabic languages of Asia. Indo-Chinese languages of the monofyllabic class, borrow a considerable variety of terms from the Pali or Bali, which exists among them, as the language of learning and science; but in adopting these polysyllables, they accommodate them to their peculiar enunciation, by pronouncing every fyllable as a distinct word. The Rukheng is the language of the original inhabitants of Arakan, who adhere to the tenets of BUDD'HA. Forming, in ancient times, a part of the empire of Magadha, from which they feem to have derived the name of Mug or Mauga, by which they are generally termed by the inhabitants of Bengal; and being, from their fituation, more immediately connected with India; their language is by no means purely monofyllabic, but forms, as it were, the connecting link between the polyfyllabic and monofyllabic languages. The Rukheng race is admitted to be of the same radical stock as the Barmas or Birmans, and is understood to have greatly preceded that nation in civilization. The Barmas, indeed, derive their own origin from the Rukheng, whom they generally denominate Barma kyi, or the great Barmas, and they confider the Rukheng as the most ancient and original dialect of the Barma language. This idea is certainly correct, and it may be added, that the Rukheng orthography and pronunciation are neither fo defective, nor fo much corrupted as the Barma, and that confequently, in tracing the history of the language, the Rukheng is of much greater utility to the philologist. In another respect the language may be considered as purer; until their late conquest by the Barmas, the tribes of Rukheng seem for a long period to have retained their independence, while the proper Barma tribes have fuffered various revolutions. Hence the Rukheng retains more of its ancient form, and is less corrupted by foreign mixtures. The modifications, therefore, which it has received, are chiefly derived from the Pali or Bali, which was cultivated in the country as the learned language, and contained all their facred books. The Rukheng has accordingly adopted Bali words and phrases more copiously than the Barma, and has also preserved them in a greater state of orthographical purity. The pronunciation of the Rukheng is perhaps broader and groffer, but more articulate than the Barma; in particular it strongly affects the use of the letter r, which the Barmas generally convert into y, in their pronunciation. Such, however, is the difference of pronunciation between the two nations, that, even in sentences, where the words are nearly the fame, they are not eafily intelligible to each other.

THE Rukheng alphabet coincides accurately with the Deva-nagari fystem of characters in its arrangement, and very nearly in the power of the particular letters. The only variation of importance is, the expression of both the acute and grave accent of the vowels, as well as their common sound, in certain cases. This provision, however, does not ex-

tend to all the vocalic founds in the Rukheng alphabet, but only to those founds, of this species, which are of most general use. A similar contrivance for the expression of accent, occurs in all the alphabets of the monosyllabic languages, but varies, in extent, according to the exigencies of a particular language. Thus, in Rukheng, after the simple alphabet, follow the combinations of the simple letters, with wa, ya, ra, and of h preceding them. Then follow some triple combinations of the same letters, after which are exhibited the common forms of syllables which terminate in a consonant, as ah, ang, aich, a't, a'p, and others of a similar kind; and sinally the varieties of accent, as acute and grave, are presented, in those vowels and nasals which are chiefly subject to be influenced by them.

The Rukheng character has confiderable fimilarity to the Barma, in the greater part of its letters. The following fimple characters, however, g'ha, ja, j'ha, nya, ta, t'ha, da, d'ha, na, 'd'ha, ra, tla, as well as fome of the more complex combinations, differ greatly from the refpective forms of these characters in the Barma alphabet, and exhibit considerable resemblance to some of the ancient Canara characters. The Rukheng simple alphabet is exhibited with considerable correctness by Capt. J. Towers, in the fifth volume of the Asiatic Researches, though many of his particular observations, as well as general views, are far from being accurate; chiesly, it may be presumed, from the novelty of the investigation.

THE Rukheng language, in the simplicity of its structure and expression, has great analogy to the Malayu. It has properly no numbers,

cases, nor flections, in its nouns; nor conjugations, moods, tenses, or perfons, in its verbs. Many words have a substantive, adjective, or verbal fignification, according to their position in a sentence; but, in general, the names of objects, qualities and actions, are sufficiently distinct from each other. The plurals of nouns are formed by numerals, or words expressive of plurality as lú, a man, lú súng rawk, three men, lú äkúng, many men, lú äkúng-lúng, all men; mímma, a woman, mímma akúng su, many women. Comparisons are made by particles expressive of number or quantity, such as mya, or mrét-té, much; akré and hlaré, very; prét, less, under; akúng, many. Cases are expressed by particles equivalent to the prepositions or postpositions of other languages, or by juxta-position, which has often the force of the genitive in the Rukhéng language. Thus, a man's hand, may be expressed indifferently by lú-lák, lú-hma-lak, or hi-chwá-lák.

The simple pronouns are nga, I, ko, or mong, thou, and yang su, he; the plurals of which are formed by the addition of ro, as nga-ro, we; mong-ro, ye; yang-su-ro, they. But in addition to these simple pronouns, there are various others, which indicate rank and situation, as in Malayu, Chinese and the monosyllabic languages in general, which have, all of them, paid peculiar attention to the language of ceremony, in addressing superiors, inseriors and equals. These ceremonial forms in Rukheng are sometimes formed by particles added to the simple pronouns, and sometimes they are significant terms, such as servant, lord, highness, majesty, used pronominally, or rather in an absolute sense, when

the terms asyang, lord, sir; sak'hang, highness; khang-părâ, majesty, are employed.

THE pronouns in common use in Rukheng, according to this variety of ceremonial forms, may be thus exhibited.

I, we,	thou, ye,	he, they,
	kó,	dang,
nga, nga-ro,	móng,	yang-su,
nga-ro hme,	nang,	yang-su-re,
kyĕwéng.	awey,	su-ro.
akyčwéng,	mong-hma,	THE PERSON
akyeweng-hma,	mong-ro,	
akyĕwéng-ró,	mong-ro-hma,	
akyeweng-ro-hma,	nang-ro,	
akyeweng-tza-ré,	nang-hma,	
akyeweng tz'hang-ré-re,	nang-ro-hma,	
	awey-ro,	
No.	awey-hma,	
	awey-ro-hma,	

To explain the particular instances in which each of these pronominal terms is used, is not consistent with my present object, which is only to present a general outline of the structure of the language.

The moods and tenses of the verbs are in like manner expressed by means of particles, or significant words, like our auxiliary verbs. Such are si, hi, hi-ré and le-bi, is; bri and lé yákk, is, been; bri-ré and bri-kha-ré, was; míy, will; ra and ra-mé, may, can; yaung, let, permit; hi-sua, been. The position of these particles in a sentence, is often, however, a matter of considerable difficulty, and is one of the circumstances in which the elegance of style chiefly consists. The style chiefly affected in Rukheing composition, is a species of measured prose, regulated by accent

and the parallelism of the members of a sentence. Rhyme, however, is not required, either in the terminating consonants or vowels, though it frequently occurs from the structure of the language. The general form of this measure seems to be four long syllables, each of which, however, is conversible into two short ones, or may have a short one interpolated before or after it. Thus, the passage adduced by Captain Towers from the Man's Saingwan, as a specimen of his system of orthography in his "Observations on the Alphabetical System of the Language of Awa and Rac'hain," may be arranged.

Maha sámäta, Man grí chak-kráwălá, San'khra prain brain, Tain dain pi' tá, Tain-kha hnaik ch'haun', Khré sō tắchhé, Shai'ch pá số T'hám-mã-sất, Cha ga do go &c.

Sometimes, however, more complicated measures are employed in Rukhéng composition, in imitation of those which occur in Balí. Many interesting works are represented to exist in the Rukhéng language, but the greater part of them are translations from the Balí. The "Tillawar Cherita" is said to contain the historical traditions of the Rukhéng nation: the "Karik," composed by Anguli-Mala, and the "Thamma-sat" or Dherma Sastra, contain their system of religious observances, and code of laws. The sollowing is a list of the most popular Rukhèng compositions.

well keeks

ani AliAs

- r. Raja-buntza,
- 2. Raja-wongtza,
- 3. Témi,
- 4. Némi,
- 5. Janaka,
- 6. Suwanna-alyang,

- 7. Bhuridat,
- 8. Tzaingda-gungma,
- 9. Sada-shyei'ch-chaung,
- 10. Mahő,
- 11. Uni-nga-gyaing,
- In So'p-foung-gyeng,

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13. Bhuridat-kapya,	47. Péda-fow't,
14. Bo-thi-hmain-déi,	48. Mungăla-fow't,
15. Wé-faing-dara,	49. Khunei'ch-ra'k,
16. Saing-we-ra,	50. Khunei'ch-ra'k-parei'p,
17. Krauk-ché,	51. Patha-wi-jéya,
38. Nara-cho,	52. Sa-gra-ú-ch'howng,
19. Athi'k-bala,	53. Lé-keweng-u-ch'howng,
20. Abhi-dam-ma,	54. Sit-t'ha-da-nú,
21. K'hunei'ch-kyéng,	55. Sat-powng,
22. Para-ma-faing-gou'k-kyeng,	56. Sat-yeng, Maria Maria Maria Maria
23. Maha-Raga-t'ha-kyéng,	57. Sat-hnewaing,
24. Sapa-kyéng,	58. Sa-hrwé-k'hé,
25. T'ham-ma-fat-kweing-khya,	59. Moé-tó-krang-cha;
26. T'ham-ma-fat-kra'k-ru,	60. Gu-waing-podi-mowng-cha,
27. T'ham-ma-fat-Manu,	61. Thi-to-padé-fa,
28. T'ham-ma-fat-krudaing,	62. Noma-ko-ga-tha,
29. Logafara,	63. Tăché-hnei'ch-ra-fi,
30. Sa-bri-hla,	64. Khowng-gri,
31. Taing-t,haü,	65. Khowng-lap,
32. Radana-hrwe-khri,	66. Khowng-ngé,
33. Radana-paing-gung,	67. Tä-hnaung-gra,
34. Rudana-paddaing,	68. Mé-t'haung-gra,
35. Radana-kweing-khya,	69. Su-mé-t'ha,
36. Radana-powng-khyowk,	70. Rewatta-cha,
37. Ba-na't-fa,	71. Afwa-pida,
38. Kraing-ma-tei'ch-p'hak-powng-wat'h	u, 72. Prowng-bra,
39. Nga-tzi-fada-pring-do,	73. Owng-pa-di-cha,
40. Ga'p-p'ha-kyéng,	74. Paing-pru-cha,
41. Lakhana-di-ba,	75. Uga.
42. Noma-kapya,	76. Mowng-chwa-cha,
43. Nga-chaing-braing,	77. Cho-rê,
44. Rama-wut'hú-cha,	78. Ya't-ré,
45. Bramafara,	79. Lúng-di-cha.

FROM this lift, it is evident, that the subjects of some of these works are the adventures of characters well known in Sanscrit mythology, as the Rama Wut'hu or history of RAMA, the Budd'ho-wa-du or history

46. Bud-dho-wa-da,

of the Avatar Budd'HA; others of them feem to be only Rukheng verfions of well known Sanscrit compositions, as the T'hi-to-pa-desa, or Hitopadesa, the T'ham-ma-sut-Manu, or Dherma-sastra of MENU. The Suwanna-Asyang is the popular story of SUVURNA SRINGI, or the golden cow, formed by the Brahmen SUMBUKARA MISRA, and presented to Raja MUKÚNDA DEVA GAJAPATI. The Bhuridat is the history of Raja BHURIDATTA of Magadha, mentioned in the Maha Bharata, and the Bhuridat-kapya, or Bhuridutta-kavya, is a poem on the same subject. The Raja buntza is the Rukheng edition of the Raja Vumsavali, the Rajah-Wongtza is a different work on the same subject, and the Patha-wi-jeya feems to be the Pritthu-vijeya. Of the modifications they have received, in the process of translation, I have hitherto had little opportunity of judging, but as far as I have been able to investigate the subject, not only the style, but the incidents and progress of the Sanscrit narration is generally altered, to render them more illustrative of the ascetic doctrines of the Budd'hist sect; such as the guilt of killing animals, even accidentally; and the perfection acquired by Rishis in folitary retirement, by means of fublime penance and meditation.

THE Rukheng language has never been cultivated by Europeans; the observations on its alphabetical system by Captain Towers, and the short specimen of its vocables in Dr. Fr. Buchanan's "Comparative Vocabulary of some of the Languages spoken in the Burma Empire", both in the 5th vol. of the Asiatic Researches, being all that has been published concerning it in any European language. The specimen given by Dr. Fr. Buchanan, only varies from the Barma in seven words out

of fifty, and these are only varieties of pronunciation, excepting " looshee" a child, which is also Barma, and mateinay, which seems to be an error, as it does not fignify to sit, either in Rukheng or Barma, but literally " does not stand," the proper Rukheng term being ra't chowk. The words in the vocabulary certainly exist in Rukheng as well as in Barma; but in some instances different words are in more general use, in the former; as ahri, long, instead of she, and po-mro-naing-grong, beast, instead of taraitzan. The Rukheng pronunciation, sometimes too, is modified by the Burma, and the letter r is almost always omitted in the specimen, though it is a distinguishing characteristic of the Rukheng pronunciation. Thus, the Rukheng requires mri gri, earth, instead of myægyee, in the specimen; kri, great, instead of kyee; kripamó, foot, instead of kiæpamo; krow'k, six, instead of kiouk; kri, a star, instead of kyay, and ni, the sun, instead of nay. These errors, however, are not to be attributed to Dr. FR. BUCHANAN, nor detract, in the leaft, from the merit of his exertions in commencing the investigation; they evidently proceed from the inaccuracy, hurry and indistinct pronunciation of his Barma affiltants, and in his fituation were perhaps not to be avoided, unless by attending to the native orthography.

DR. F. BUCHANAN has also exhibited comparative specimens of two mixed dialects, spoken in Arakan; the first termed Ruinga, spoken by the Moslems of the country, and consisting of a mixture of Arabic, Hindi and Rukheng; the second, termed Rusán, used by the Hindús of Arakan who adhere to the system of BRAHMA, and formed by a large proportion of corrupted Sanscrit and Bengali, united to a comparatively small portion of Rukheng. The dialect of the province of Yo, as it is pronounced

by the Barmas, and Ro as it is termed by the Rukheng is only a flight variation of the Rukheng, which it approaches much nearer than the Barma. The range of mountains to the north and east of Rukheng is inhabited by a race termed Kheng, by the Ruk'heng and Barma tribes, or as it is written by Dr. FR. BUCHANAN, Kiayn; but who term themselves Kolún, and whose language is peculiar, having little or no affinity to either Rukheng or Barma. From the two names, Ro and Kheng, the name of Rukheng is generally derived; but the national name of the Rukheng race is Ma-rum-ma, which feems to be only a corruption of Maha-Vurma; Vurma being an epithet generally assumed by the tribes of Kshatriya extraction. The inhabitants of the mountains between Rukheng and Chatigan are termed Sa-mowng-syang by the Rukheng tribes, and are afferted to speak a different language. They are probably only a division of the Kheng or Koliin. Whether these are the same with the Kúkis, who inhabit the high ranges of hills to the N. E. of Chatigan, I have not been able to determine. In the able and curious description of this fingular race, given by J. MACRAE, Efq. in the seventh volume of the Afiatic Refearches, the languages of the Kúkí and Mug, or Rukheng races, are faid to be so intimately connected as to be mutually intelligible. That the two adjacent tribes should be mutually able to understand each other, is very probable; but that their respective languages are connected, in this instance, I apprehend to be very dubious; for in a specimen of above 500 radical terms of the Kúkí, which I owe to that gentleman's politeness, I find very few which are similar to the corresponding Rukheng, or that were understood by an intelligent native of Arakan. The subject, however, requires further investigation,

and there feems to be no person better qualified than Mr. MACRAE, for prosecuting the inquiry, both by his abilities, and his situation.

VIII. BARMA.—The Barma language is used by the great and powerful nation of the Barmas. The name of this nation has been written differently, by almost as many authors as have mentioned it, while no person seems to have thought it worth his while to inquire how the Barmas wrote their own name. This they constantly write Barma, though from affecting an indiffinct pronunciation, they often term themselves Byamma, Bomma and Myamma, which are only vocal corruptions of the written name. AMADUTIUS, however, in his preface to the " Alphabetum Barmanum seu Bomanum," with equal ignorance and confidence, denies flatly, that any nation, country, city or language, exifts, which, by the natives themselves, is denominated Barma. This name, he afferts to have been introduced folely by the ignorance and vicious pronunciation of Europeans, fince, fays he, by the analogy of the language, the nation is denominated Bomah, the great nation, from bo, the head, a chief, and mah, a man. This filly vapouring etymology is, however, entirely averse to the established orthography of the Barmas themselves, and only worthy of P. PAULINUS, or a modern Frenchman. dul bul bis and

THE Barma language, like the Rukheng, in its original state, appears to be purely monosyllabic, but it has borrowed freely from the Balí, and in imitation apparently of that language, it has sometimes formed words of some length, by the coalescing of its original monosyllables. Being completely devoid of every species of slection, whether in nouns, pronouns, or verbs, its construction is extremely simple, and depends almost solely on the principle of juxta-position, like its cognate dialect, the

Rukheng, which it resembles in structure. Its pronouns and particles are peculiar, its idioms few and simple, and its metaphors of the most obvious kind; but it is copious in terms expressive of rank or dignity, and the rank of the speaker is characterized by the language he uses.

THE Barma alphabet corresponds to the Balí, and is regulated by the same principles of accentuation. In point of form, it has considerable resemblance to the Canara, Singala, and Telinga alphabets, but is rather more simple in the formation of the character. Carpanius, in his "Alphabetum Barmanum seu Bomanum," is inclined to derive the Barma character immediately from the square Balí, used in Ava, and both of them from the Hebrew, through the medium of the Persic. Amadutius, improving on this idea, or rather adopting that of Bayer, seems to be desiruous of deducing both, as well as the Malabar or Malayalam, from the Armenian, a character to which they have scarcely the remotest resemblance, and the origin of which, is itself involved in great obscurity.

The character of the Barma language has a very confiderable effect on the style of the compositions its contains. Repetitions of the same turn and expression, are rather affected, than shunned; and a kind of naked strength and simplicity of phrase, with short sentences, pregnant with meaning, are the greatest beauties which the language admits of. "The Bomans" says Carpanius, "in their poetry, are more careful of preserving similar terminations, than an equal number of syllables, and use this style, particularly in treating of religious subjects." The sact, however, is, that the similarity of termination is neither sought, nor shunned; but recurs from the genius of the language, very frequently. The

flyle of the principal Barma compositions is a species of measured profe, regulated almost solely by the accent, as in the Rukhéng, the different dialects of Chinese, and the other monosyllabic languages. The tone of polished conversation requires an approximation to this style of composition. The verb is generally placed in the close of the sentence, and the defect of conjunctive particles, to connect the different members of a sentence, renders a considerable degree of repetition absolutely necessary to prevent consultion.

THE Barma language has been highly cultivated in composition, and contains numerous works in religion and science. Besides numerous books on astrology, mythology, medicine, and law, in the latter of which the most important is the Dam-ma-Sat kyee, or great system of justice, with the Constitutions of the Barma princes. The Barmas are afferted, by Dr. BUCHANAN, to possess numerous historical works, relative to the different dynasties of their princes, the most celebrated of which is the Maha-raja-Wayngee. "These people," says he, "have also translated histories of the Chinese and Siamese, and of the kingdoms of Kathee, Koshan-byee, Pagoo, Saymmay and Laynzayn." On the importance of such works, supposing them to be strictly of a historical nature, it is needless to dilate. It appears probable, however, that many of them may refemble the Hindú Cheritrás. The Barmas possess numerous smaller poems and fongs, and even natakas, which may probably be derived from Sanscrit tradition, as the adventures of RAMA in Lunka, are favorite topics in their dramas. The following are fome of the most popular works in the Barma language, and several of them, I find, exist equally in Rukheng, Siamese and Malayu. Some of them are purely mythological, but others are Cheritras of the historical class.

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- 2. Nunda-Jina;
- 3. Nundaguma,
- 4. Chundaguma,
- 5 Narada,
- 6. Temi,
- 7. Nemi,
- 8. D'hammapada,
- 9. Namagara,
- 10. Logafara,
- II. Loganit'hi,
- 12. Maho-Sut'ha,
- 13. Wesundura, or ftory of Rajah Vesundara,
- 14. Paramik han,
- 15. Chudongk'han,
- 16. Bungk'han,
- 17. Kado k'han;
- 18. Chatu Damasara,
- 19. Sangwara, termed in Siamese, the

- 20. Bhuridat
- 21.1 Kinara-pyeu, or account of the ce
 - of Rajah Malin,
 - 23. Jinaka, or history of Rajah Jinaka, denominated in Siamese Maha-Chinók,
 - 24. Yuwaji, termed in Ruk'heng Ruari,
 - 25. Swipri-weng-khan,
 - 26. To-twek-k'han,
 - 27. Munigungsala,
 - 28 Anusasana,
 - 29. Suan-nashan,
 - 30. Wit'hora,
 - 31. Kagileinga,
 - 32. Sada-syi'ch-chaung,
 - 33. Anaga atweng,
 - 34. Ngare-khan or descriptionof Narakas

pittia

- 35. Attagatt-lénga,
- 36. Hmát-chew' bón'g:

The Barma language has some variety of pronunciation in the different provinces of that empire. The dialect of the Yô, situated on the east of the Arakan mountains, has been already noticed. The Tanéngsári, or language of the inhabitants of the Tanaserim district, denominated Tinnaw by the Siamese, also differs considerably from the common Barma. The Tanéngsári certainly have many peculiarities of expression, and many words in common use, among them, are at present obsolete among the Barmas of Ava, but the majority of them are to be found in the Barma writings, and the Tanéngsári are therefore

reckoned to use an obsolete dialect, rather than a peculiar language. I have already mentioned in what respects the Barma and Rukheng are related to each other. The following comparative list of terms will show more particularly the extent of their difference in current use.

Month khanang piját back nau-kúng naó knee pa-chhei'ch-tú du bone aro ayo heart alúng na-towng		
knee pa-chhei'ch-tú du bone aro ayo		
bone aro ayo		
the state of the s		
heart slung na-towner		
means and many		
feeing mrang-ré sú myang-fu-ha		
fmell kaing-ré chan-jan		
touch pait-té feing-fu-ha, th	ni .	
trouble ma-ré khék		
ftrength akri akyan		
marriage maya-ni-chá'p-té 1ék-t'hat-gya,		
life ahrang afyang		
eircle apawk akwéng		
ftorm mukri mofeik		
hail mu-gyowk mó-fi		
morning mă-fowk-tha, nyi-ga mă-neik,		
evening nya-ja nya-né, né-é		
fea mreik péng-lé		
dust mré-moh amóng, myé-	mong	
mud ta-mal fuin		
fire ming mi		
length hré fhi	54	
ditch mroung kewng		
gold hruí fué		
filver muë ngoé		
horfe mroung miyin		
fowl krak kyiuk		
cock krak-p'ha kyiuk-t'hí	kyiuk-t'hí	
hen krak-ma kyiuk-ma	kyiuk-ma	
fnake mrui myewê		
fail rowak rowak yewék		

the 's new res	Rukhêng.	Barma.	
bed	făloëng	kadeng	
taylor	ang-gi-dap	khyowk-fama	
white	aprú	pyú	
hard	kyang	má	
vegetable	haung fei'ch ruakk	heing-ewék	
Salar Various		Cayeng-fu-ha	
first	ayenga akha	3	
fecond	hnei'ch-khu-chowng	(ayeng-da-ha hnei'ch-khu-fu-ha	
1	akyeweng-hma		
we		kyewen-noú'p	
thou	akyeweng-ro-hma	kyewen-do	
	mong	méng	
you	mong-ro	méng-do	
he	yang-fu	fu	
they	yang-fu-ro	ſu-do	
this	dé-ga	di-ha	
that	t'ho-ga	ho-ha	
who	ăſu	bélű	
what	jama was to wind to any	baha	
which	ăfu	þéfú, béha	
if	t'ho-shyang	hléang	
though	la-lá't-hléukk	phye'ch-hleang	
about	le'khi-gra't-me	pát	
many	akúng,	apóng	
perhaps	kaing-ra-bya	kán-hné	
yes	how't-payak	hou't-ké	
no	ma-hí	ma-fi	
is	M	fi	
was	bri	pyi	
has been	hi-yak	fi-bi	
I ought to do it	akyeweng-louk-kowng-yak	kewen-noù'n-louk-gowng-dê	
I will do it	akyeweng-ro-hma louk-ra-ré	kewen-nou'p louk-ya-dé	

THE Barma affects a more delicate, but at the same time inarticulate pronunciation than the Rukheng, and less conformable to the actual orthography of the language. This is particularly obvious in the conversion of ra into ya in Barma; but the Rukheng itself is not devoid of

its peculiarities, among which may be mentioned the conversion of sha into ha. Thus the word which is written shré, in both languages, is in Barma pronounced syi, and in Rukhéng hrí.

THE specimens which Dr. BUCHANAN has exhibited of the languages of the Karieng or Karayn, as he writes it, and of the Kiayn (which feems to be the same word softened in the pronunciation,) the rude tribe which denominates itself Kolun, certainly show considerable analogy to exist between these dialects and the Barma proper. Some Barma words seem, likewise, to be discoverable, in the specimen he has given of the language of the Moitay, or inhabitants of Kassay, as mee, fire, nga, fish; and more copious and correct vocabularies, with a more exact orthography, would probably exhibit a more intimate connection; . but a certain degree of acquaintance with the grammatical principles of every language, and with its alphabet and orthography, if a written one, is absolutely necessary to give any philological value to a specimen of its words. The inhabitants of the Nikobar islands are sometimes reprefented by those who have visited them, as speaking a language which is radically Barma, while, by others, it is reckoned Malayu, If Fon-TANA's short vocabulary (Afiatick Researches, Vol. III.) can be depended on, the Nikobar language feems to have very little connection with either the one or the other; as it does not appear to contain above two or three words which can with certainty be referred to either of them.

THE Barma language has been little cultivated by Europeans, excepting the Catholic Missionaries. The "Alphabetum Barmanum," digested by Carpanius, was published at Rome in 1776. Carpanius mentions, in his preliminary differtation, that, at that period, a grammar and

vocabulary of the Barma language had been prepared by P. Joh. Maria Рексото, Bishop of Méssola, which seems never to have been published. In the preface to the same work, AMADUTIUS mentions, that the gospel of Sr. MATHEW, and the epistles of Sr. PAUL, had been rendered into the Barma language, together with the " Evangelia dierum omnium Dominicalium," " Epistola Dogmatica, et Dialogus inter Missionarium et Talapoinum." P. PAULINUS, also mentions among the Borgian MSS. a dialogue between a favage Khien and an Ex-Talapoin, written in the Italian language by D. CAJETANUS MANTEGATIUS, the object of which is to expose the doctrine of the Talapoins, as contained in the books of the Barmas. Khien seems to be the name of the rude tribe termed Khing by Moslem writers, and Kiayn by Dr. BUCHANAN; and the work itself, the translation of a composition circulated among the converted Barmas by the catholic millionaries. The Talapoins feem, however, to have retaliated on the missionaries; and Dr. FR. BUCHANAN has printed VINCENTIUS SANGERMANO'S translation of " A view of the Religion of GODAMA," composed by ATULI ZARADO, for the express purpose of converting the Christians, in which the English, Dutch, Armenians, and other nations are exhorted to adore GODAMA, the true GOD; to adore, alfo, his law and his priefts, to be folicitous in the giving of alms, and in the observance of Sila, and in performing Bavana.

IX. Môn.—The Môn language is still used by the original inhabitants of Pegu, who denominate themselves Môn, though by the Barmas they are termed Taleing, and, by the Siamese, Ming-môn. This language has never been cultivated by Europeans, and the only specimen of it, known to me, is that printed by Dr. Fr. Buchanan, (Asiatic Re-

fearenes, Vol. V.) It feems to be quite original, and is faid by the Barmas and Siamese to have no affinity with either of their languages. I have met no learned man of the race, nor have had any opportunity of cultivating the language, but I have been informed by a Talapoin that they possess many ancient histories in this language; which is not imposfible, as they feem to have attained civilization, at a more early period than the Barmas; and, though now reduced, to have been formerly a great and potent nation. In the early Portugueze histories they are denominated the Pandálús of Môn; and they are supposed to have founded the ancient Kalaminham empire, at a very early period. The name Kalaminham, mentioned by the Portugueze, is probably connected with the Siamese name of the nation, Ming.mon. The Mon alphabet, if I can depend on the specimens of the character shown me by a Barman of some learning, is only a flight variety of the Barma-Bali, with which it correfponds, in the power and arrangement, as well as the form of the characters. I have, however, had little opportunity of investigating this subject; and, expecting to have vifited Pegu, did not avail myfelf of that opportunity to the fullest extent. The examination of the Mon character and language, has no peculiar difficulty, and may be eafily accomplished by the first literary inquirer who may visit Pegu; and I still indulge the hope that my future inquiries may be attended with fuccess in investigating their relations.

X. THAY.—The They language is that which is used by the Siamese, who, in their own tongue, assume this name as their national appellation. By the Barmas, they are denominated Syan, from whence the Portugueze seem to have borrowed their Siam and Siaom, from whom

the other nations of Europe have adopted the term. LA LOUBERE, who visited Siam in 1687-8, as Envoy Extraordinary from the French monarch, has given incomparably the most accurate account, that has ever been exhibited, of this nation, formerly reckoned the most polished of eastern India. He divides them into two races, the Tai and the Tai Yai. The latter nation, he adds, are reckoned favages, though the most ancient. Their name fignifies literally the great Tai, and in order to diffinguish themfelves from this nation, the ruling race, in modern Siam, affume the name of Tai-noë, the little Tai. Dr. FR. BUGHANAN, however, on the authority of the information he received in the Barma dominions, divides the Siamese race into many states; and gives a specimen of the vocables of three dialects. This brief vocabulary, with LA LOUBERE's observations on the Siamese language, and " The maxims of the Talapoins," translated out of Siamsse by the catholic missionaries, which he has published in his " Historical Relation of the Kingdom of Siam," constitute all that has been published, respecting the language or literature of this nation, in any European tongue. The refult of my own inquiries certainly coincides more directly with LA LOUBERE's information, than with that received, by Dr. FR. BUCHANAN. All the intelligent Siamese, whom I have met, and among these, there were Talapoins, both of the Tai and the Taiyai race, agree in afferting, that the Siamese nation, properly fo called, confifts of two tribes, the T'hay and the T'hay j'hay, for so the names are properly written. Of these the most ancient are the T'hayj'hay, formerly famous for their learning, and the power of their empire. It is added, that many monuments of this ancient race exist in the kingdom of Siam; and I was informed, in particular, that in the vicinity of

Ligor, about five days journey from Trang, there are various ancient inferiptions, on stone, among the ruins of a very ancient temple, which are attributed to the T'hay-j'hay, but which no person among the modern T'hay is able to decypher. The T'hay language, or Siamese, as it is written by these two races, does not differ effentially; but the spoken dialect among the T'hay j'hay, is much more strongly accented, than among the T'hay proper, or the present ruling race of Siam. The T'hay j'hay inhabit the country between the Me-nam and the Me-kon, or river of Cambodia; but the T'hay, for the most part, inhabit on the west of the Menam, or between that river and the frontiers of the Tinnaw, Mon, and Barma nations. As to the Tai-loong, of whose vocabulary Dr. BUCHANAN has given a specimen, all the Siamese that I have met, though they admit that a district is denominated by this appellation, unanimously deny, that there is either a race of men, or a dialect of the language, which bears this name. The words themselves, which Dr. FR. BUCHANAN adduces, as specimens either of the Tai loong or the Tai-yay, are pure Thay, wheneever they are not auricular corruptions of pronunciation, or words of different meaning, introduced, apparently, by the interpreter's misapprehension of the sense required to be expressed. Having myself been frequently exposed to fimilar misapprehensions, and knowing, from experience, the difficulty of avoiding it, especially in languages, in which not only the fignification varies, with fuch delicate shades of pronunciation, as are almost undistinguishable to an European ear, but the train of ideas themselves, is regulated by such a subtile, and as it were hieroglyphical fet of principles, I am far from infinuating any careleffness in Dr. FR. BUCHANAN, whose comparative vocabulary is the first attempt to

classify these languages; but I am attempting to account for the mistakes, into which he seems to have been inevitably led, by the misapprehenfion of his interpreters. Thus, moo fignifies the hand, in Thay, and paw-moo, which he exhibits as the Tai-loong variation, is only Fa-mu. the palm of the hand, in the proper language: Ken, which he writes kayn, fignifies the arm, in T'hay or Siamese proper, and in the same language, komoace, which he gives as the Tai yay fynonime, fignifies the lower part of the arm, from the elbow to the wrift, and moo, the Tailoong fynonime, fignifies the hand; Tin, fignifies the leg, in Siamese; but naung, which he gives as the Tai-nay, fignifies the skin; and koteen, the Tai-yay synonime, the joints of the leg; in the same manner langteen, which he gives as the Tai-nay, or common Siamese, for foot, fignifies literally the upper part of the foot; and Swateen, the Tai-yay synonime, appears to be a mispronunciation of Fatin, the under part of the foot. Satt signifies a beast, or animal, and nook, the Tai-yay synonime, is only a mispronunciation of nok, a. bird, as are noup and naut, the Tai-nay and Tai-yay words, which are given to fignify a bird; Pawk fignifies the mouth, but tsop, given as the Taiyay synonime, is a mispronunciation of tsot, to drink; San signifies short, but lot, the Tai-yay fynonime, fignifies child, and unlot, the Tailoong fynonime, one child; your fignifies to stand, but loot-sook, the Tai-yay fynonime mispronounced, signifies to rise up; and Peinung, the Tai loong synonime, go sit; seeza, the head, is not Siamese, but Bali, and the Tay-yay fynonime ho, and the Tai-loong, hoo, are only mispronunciations of the proper T'hay term hua. It may be proper also to observe here, that Dr. FR. BUCHANAN has printed Tay-nay instead of the Tai-nog of Low-Lou-BERE, which fignifies little Siamese; whereas Tay-nay cannot possibly fignify little Siamese, but only chief Siamese; the true meaning of nay, being chief or head. It is a term of similar import with nayen, nayer and nayenmar, used in Malabar, as the appellation of the military cast, or nayaka, in Sanscrit.

THE Thay or Siamese language appears to be in a great measure original; and is more purely monofyllabic, and more powerfully accented, than any of the Indo-Chinese languages, already mentioned. It certainly is connected, in fome degree, with fome of the Chinese dialects; especially the Mandarin, or Court language, with which its numerals, as well as fome other terms, coincide, but thefe are not very numerous. It borrows words freely from the Bali, but contracts and disguises more, the terms which it adopts, than either the Ruk'heng or the Barma. In its finely modulated intonations of found, in its expression of the rank of the speaker, by the simple pronouns, which he uses, in the copiousness of the language of civility, and the mode of expressing esteem and adulation, this language refembles the Chinese dialects, with which also, it coincides more nearly in construction than either Barma or Rukheng. . Its construction is simple and inartificial, depending almost folely on the principle of juxta-polition. Relative pronouns are not in the language; the nominative regularly precedes the verb, and the verb precedes the case which it governs. When two substantives come together, the last of them is for the most part supposed to be in the genitive. This idiom is confonant to the Malayu, though not to the Barma or Ruk'heng, in which, as in English, the first substantive has a possessive signification. Thus, the phrase, " a man's head," is expressed in Barma and Ruk'heng, by hi-k'haung, which is literally man-head; but, in Siamese,

it is kua-khon, and in Malayu, kapala orang, both of which are literally head man. A fimilar difference occurs in the position of the accusative with an active verb, which case, in Barma and Malayu, generally precedes the verb, as tummaing chá, literally rice eat; but in Siamese follows it, as ken kaw, literally eat rice, which corresponds to the Malayu makan-nasi. The adjective generally follows the fubstantive, and the adverb the word which it modifies, whether adjective or verb. Whenever the name of an animal, and in general, when that of a species or class, is mentioned, the generic, or more general name of the genus to which it belongs, is repeated with it, as often happens in the other monofyllabic languages, as well as in Malayu. In the position of the adverbial particle, the Malayu often differs from the Siamese; as Mana pargi, literally where go, but, in Siamese, pai hnei, go where. The Siamese composition is also, like that of the Barma, a species of measured prose, regulated folely by the accent, and the parallelism of the members of the sentence; but, in the recitative, the Siamese approaches more nearly to the Chinese mode of recitation, and becomes a kind of chaunt, which different Brahmens have affured me is very fimilar to the mode of chaunting the Samaveda.

THE Thay coincides occasionally, even in simple terms; both with the Barma and Malayu; but these terms bear so small a proportion to the mass of the language, that they seem rather the effect of accident or mixture, than of original connection. The following are some of these coincidences which present themselves spontaneously.

-	•	о,

	T'bay	Barma	t with the	T'hoy	Malayu
river,	klong,	kyong or krong,	1,	ku,	aku, and kuj-
elephant,	chang,	ch'heng,	this,	ni,	ini,
saw,	lŭei,	162,	that,	nunn,	inún,
finger,	nyew,	nyo,	lock,	kaché,	kunchi,
to,	ka,	ga,	dagger,	krít,	krís,
self,	éng,	la leng,	open,	bùk,	bûka,
	100	C SUBMITTED	to,	ka,	ka,
		DILL SALLESCHIE	come,	ma,	mari.

THE T'hay or Siamese alphabet, differs considerably in the power of its characters from the Bali; though it not only has a general refemblance to it, in point of form, but also in the arrangement of the character. The vowels, which are twenty in number, are not represented by separate characters, but by the character corresponding to the short ahar, variously accented; excepting the vocalic ru and lu, which are only variations of the r and t confonants. The confonants are thirty-feven in number, and are not arranged by the feries of five, like the Deva-nagari and Bali, but the first series ka, confists of seven letters; the second feries, cha, of fix; the third feries, ta or da, of fix; the fourth feries, ba or pa, of eight; the fifth feries, ja, of four; and the last feries, sa, of fix, including the vocalic akar, though two of them are not in common use. Each of these letters is varied by fixteen simple accentuations, and by thirty-fix complex ones. The letters ka, nga, ta or da, na, ma, ba or pa, are also final consonants. Hence it is easy to perceive the near approximation of the Siamese to the delicacy of the Chinese accentuation; while in other respects, the alphabet is considerably more perfect, than in the Mandarin or Court language of the Chinese, which has neither the fame variety of consonants, nor admits so many, in the close of a syllable. The Siamese pronunciation, even of confonants, corresponds very 10

imperfectly to the European mode: r and l are generally pronounced n, in the close of a syllable; h is often prefixed to a consonant, but from the total suspension of voice, in pronouncing syllables which terminate in a consonant, no aspiration can be pronounced after them; ma, and ba, tya, and chya, are often difficult to be distinguished in pronunciation, as are ya, and ja, kyé and chyé, with other combinations. From this circumstance, many combinations of letters are pronounced in a manner somewhat different from that in which they are written.

THE first European who attempted the study of Siamese literature, was the learned Gervaise, but his lucubrations have never been published. The learned and indefatigable Hyde procured from the Siamese ambassador at London, an impersect copy of the Siamese alphabet, which has been published by Grec. Sharpe, in the "Syntagma Dissertationum," 1767. It is inferior to La Loubere's alphabet in accuracy, though it contains a greater number of compound characters. La Loubere's alphabet contains three forms of the sa, corresponding to the Nagari; but the sha and sh'ha being disused in common pronunciation, are commonly omitted both in the alphabet and in modelin MSS.

THE Siamese or T'hay language contains a great variety of compofitions of every species. Their poems and songs are very numerous, as are their Cheritrás, or historical and mythological sables. Many of the Siamese princes have been celebrated for their poetical powers, and several of their historical and moral compositions, are still preserved. In all their compositions, they either assect a plain, simple narrative, or an

sold from the fatths which claims in the long was the

unconnected and abrupt flyle of short, pithy sentences, of much meaning. Their books of medicine are reckoned of considerable antiquity. Both in science and poetry, those who affect learning and elegance of composition, sprinkle their slyle copiously with Bali. The laws of Siam are celebrated all over the east, and La Loubere has mentioned three works of superior reputation, the Pra-Tam-non, the Pra-Tam-Ra and the Pra-Raja-Kam-manot. Of these, the first is a collection of the institutions of the ancient kings of Siam; the second is the constitutional code of the kingdom, and contains the names, sunctions and prerogatives of all the officers; the third, which is about 150 years old, contains additional regulations. Of these, the first is the most celebrated and the most deferving the attention of Europeans.

The Siamese histories of the Thay dynasty, detail with much minuteness, and great exaggeration, the events which have occurred in Siam, and the adjacent states and countries, during the last 1000 years? It also details the events of 400 years, previous to that period, with less precision, from the building of the city Maha Nakhón. The records, however, of the Thay Jhay dynasty are supposed still to exist; and, perhaps, it may yet be possible to glean a few grains of pure historic gold from the sands which glitter in the long vallies of the Minam and Minam.

THE Cheritras, or romantic fictions of the Siamese, are very numerous, and the personages introduced, with the exception of RAMA and the characters of the Ramayan, have seldom much similarity to those of the Brahméns. The sollowing are some of the most popular among the

T'báy, several of which contain the same stories and incidents as those which are current among the Rukhéng, Barma and Malayu nations.

I	Rá	má	-k	ién	

² Rádin,

5 Worawong,

6 Un-narfit,

7 Mahó-fot,

8 Mélăy,

9 Chátri

10 Chalawan,

rr P'húm-hóm,

12 Pra-thóm,

13 Su-t'hon,

14 Pok'ha-wad-di,

15 Téng-ón,

16 Lin-t'hóng,

17 Nok-k'hum,

18 P'ha-non-son-pajá,

19 Mak-kali-p'hon,

20 Sum-p'han-fit,

21 Suan-na-hong,

22 Prang-t'hong,

23 Nang-sip-fong,

24 Ramá,

25 Chumpá-t'hong,

26 Lûk-sŭa-ko,

27 P'him-fwan,

28 Păja-p'hali,

29 T'hàw-krung-fon,

30 Khun-p'hen,

31 Trei-wong,

32 Chin-narat,

33 P'howit'hat,

34 Su-t'hin,

35 Hoi-fang

36 Sang-fin-chay,

37 Woranut,

38 Chitra-kan,

89 Nang-ut'hav.

40 Mahá Chinók,

41 Mlek-t'hong.

In the general characteristics of style and manner, these Cheritras resemble those of the Rukheng, Barma and Malayu tribes, and exhibit the peculiar manners of the Indo-Chinese nations, as well as the peculiar seatures of their mythology. The Rama-kien seems to be a Siamese version of the Ramayan, and relates the adventures of Pra'm or Pra Ram, and his brother Pra-La'k or Lakshmana, and their wars with Tot-sa-kan or Dusha-kant'ha, (which is one of the names of Ravana,) who carried off Nang Se'da or Si'ta. This narrative corresponds, as far as I have been able to learn, with the Sanscrit poem, and almost

³ Sum-mut-ta-ko-dom,

⁴ Wét-jafun-don,

all its incidents have been converted into Natakas for representation by the Siamese, in the same manner as the Barmas have employed the incidents of the Yama-meng or Barma-Ramayan, Radin is the Siamese translation of a Javanese story. Sum-mut ta ko-dom is the history of So-MONAKODOM, abridged from the Bali. The Wet-ja-sun-don is the history of a Rajah who becomes an afcetic of the forest, being struck with a fit of devotion at the fight of a withered mango-tree, as he was walking in his garden. Worawong is the history of an unfortunate Rajah, who fell in love with a lady, and was flain by an enchanted spear which guarded her, one night as he was escalading the window of his mistress. This is also a subject of dramatic representation. Maho sot contains the wars of MAHA-SOT with CHOR-NI, and is the same as the Barma Maho-Sut'ha. Un narat, narrates the story of ANI'RUD'HA, the grand fon of KRISHNA. Malay relates the benefits of MALAY, the being whose office is to relieve the torments of Naraka. Chalawan contains the history of a destructive alligator, who falls in love with a princess, whom he carries off to his recess in the ocean, and the account of her rescue. Phim-hom is the history of another princess of whom an elephant was enamoured, and her refcue. Prat'hom is a mythological account of the origin of the universe, according to the principles of the Budd'hist fect. Nok-khum is the mythological account of the celebrated HAMSA. Pokha-wad di is the history of BHAGAVATI. Pha-non-son-paja, contains the instructions of the sagacious ape P'ha-non. The Mak-kali-p'hm, the adventures of the fon of a chief, who possessed a wonderful cow, resembling the Sansorit Kamad'henu. Súm-phan-sit, a book of moral instructions. Prang thong relates the adventures of the persons who

went to the land of the Rakshasas in fearch of the fruit Prang thong, for which a certain princess had longed when pregnant, the obtaining of the fruit on condition that the child of which the princess was pregnant, should be presented to the Rakshasa, the carrying off of the child by the Rakshasa, and her return to her parents when grown up. The Luksŭa-kó relates the friendship between the tiger and the bull, and their being asterwards metamorphosed into men by a certain Rishi. Pajap'hali relates the adventures of VALI, the brother of SUGRIVA'. The Hoi Sang relates the adventures of the prince who was born in a chank shell, and remained in it till he arrived at maturity. The Sang-sin-chay is the account of a hero who was born with a chank and an arrow in his hand, with which, and mounted on a lion, he accomplished many adventures among the Rakshasas and Girgásis, Yakshas or Yak, as they are termed by the Siamese. The Woranút relates the adventures of the twin brothers WORANU'T and WORANE'T. Nang whay relates the adventures of a Naga princess, who was carried off by a Rajah. Some of these sictions exhibit a wild and singular style of fabling, with which we are little acquainted, but the greater part are obviously derived from the Sanscrit, through the Bali.

The T'hay exhibits confiderable variety of measures, in composition, and frequently introduces several of them in the same work, in the same manner as is frequently done in Brij'h, Punjabi and Sik'h compositions. The most frequent measure, however, among the T'hay, as among the Ruk'heng and Barma, seems to be that denominated râp, which consists of sour long syllables, but admits occasionally of one or more intercalary short ones: the Jâ-ni which consists of sive syllables, the Chô-

bang of fix, the Pathamang of seven, the Jesunta of eight, are also frequently employed.

THE following specimen of T'hay, is taken from the beginning of the Mahá Chinók, a work in which the greater part of these are introduced.

DESCRIPTION OF MAITHILA.

Jang mi muung nung Jay kwàng trăhúng Chu Mít t'hín lá Tháw p'hu fuwoi rât Krop krong para Song nam maha Chinok p'homi Som det p'homi Krong se narát Pin chá nan ma Bo mi an arái Ké rat prachá T'haw krong para Pin cháw p'hen din K'haw mak pla-t'hok Bomi p'hai rók Bibiin p'ho min Pinfûk kā priăm pri Múung Pra Narin T'haw krong p'hen din Súkă fém pră chá

Lok'ha-ma k'hài Wanit t'hang lài Chai rua pai ma Bo mi fatru Bibíin práchá Prat'het naná Jom ma thuk muung Chin, Cham, Pram, Law Ming-môn, Tin-naw Map mai nong núung P'hărang phang-ka Ma kha t'húk múung Khék môn nong nữung Ma múung ka kai Kůla P'hrang-fét Chin Cham Pram-T'het Chong fakk Naláy Jipun Chinhô Aw fin ma k'hái Ni nún lúă lay

"There was a certain country, powerful and of great extent, termed Mithinla (Mait'hila.) In this country a certain Rajah exercised the sovereign authority, named MAHA CHINOK, (JANAKA) overshadowing his people like the spreading banian tree. For a long series of years, he ruled this country, while none was able to injure it, or subject it to foreign authority. Rice was abundant, and of a cheap price: no disease prevailed, and no discontent against the sovereign, and the inhabitants enjoyed every pleasure, as in the region of Pra-Narayen. The sovereign of the country diffused joy over the sace of the land, among the natives, while merchants resorted thither in

flects of ships, constantly going and coming; and as there was no disturbance in the land, the inhabitants of every country frequented it; the Chin, (Chinese) the Châm (the Chinese Tarlars.) the Pram, (Bramhens) the Ming-Môn, (Môns of Pegu) the Tinnaw, (Barmas of Tenaserim) all of them, in innumerable multitudes: also the Franks of Europe came thither to traffic; the Khêk, (Malays) the Kûla, (Chulias) the Phrangset (French) the Pram-thêt, (Kelings or Hindús of Kalinga) the Chong-sakk and Na-Lay, (Caffree tribes, with stained skins and tattoed faces,) the Jipun, (Japanese) and the Chinho, (Tonkinese) resorted thither with goods, to buy and fell, constantly in great multitudes."

THE MAHA CHINOK of the Siamese, seems to be a popular account of Raja Janaka, of Maithila, derived from the Ramayan; but it is evident, if the text can be considered as correct, that the work has been either interpolated or modernized, from the mention of the Franks and the French.

The following specimens of Rukheng and Barma, will indicate the similarity of style and measure which prevails in all the monofyllabic languages.

THE specimen of the Rukheng is taken from the Nga-chaing-braing:

THE BIRTH OF GAUTAMA.

O-lé lé fangkhyé hna
Kaing b'ha ta faing
Two'k kying tsûng bowng
Pri bri fyowng-hma,
Párá tzú gố
Lo rui towng thi
Alúng sử mré'p
Syang Theik-d'hat ga
Né hmát pro ra
Dowk thi da hnei'ch
Khyaing fa fukha
Tzaing lé fa dé

O tzeng lé bri sô
Dewa nát-tzei'ch
Ahnei'ch mroung krá
Tzaing bri chwa hma
Sei'ch-tza lé ba
Tará tzu si
Pri kha-ni-wé
Pri gri fa hla
Ka pila hnei'ch
Khrei'ch pha Thowk tô
Médó boûng hi
Siri maha

Maya waing t'hé was the board U yéng t'hé doang Amri thaing d'hé and and an Ko wat krang rué Tsuwe le ti day mile and and and pra jang ron mra O thaing de tsuwe bri Mre gri kreit krak country and and Gotami hna Ma pri rat leat Aup t'hak akowng Le krang fheat ruwe Lat lat towng 6 O thaing de tsuwe tha new radial factors Prang thak han moang Ahlueng tu pro Tsé la waing hneik Angarang to hneik Paik towng bri tho Piang & nan hmon of amasi stanta? Mi tso maya Tháing kha ngewéh khak Ahlueng tu pró derived from the Káing hléak lék tfuwé Angarang to hneik Mi tso maya di sedi di di di di di bonico de bonic Amré rat né Thowng lu chwa go Uyein fa go to another and most place Phwa hléang lé i. Lé la tan di O lé lắt bri fo

WHEN one hundred thousand revolutions of the world were completed, each occupying four Sankhyas, then the devout worthipper obtained the object of earnest desire; and the fublime THIK D'HAT, (SIDD'HART'HA) who is acquainted with the fecrets of futurity, obtained supreme felicity, tranquillity devoid of care, and self absorption. After the pure DEVA NAT'HA had paffed numerous ages in the poffession of supreme felicity, meditating on the four laws of truth, when the period of the divine favor was nearly completed; in the excellent and populous region of Kapila, SUK-TO (SUDD'HO-DANA) became his beloved father, and SRt MAHA MAYA, his venerable mother, became pregnant of a perfect conception. When this conception took place, the strong earthwas agitated upwards and downwards, trembling and shaking. After ten months pregnancy, supporting her swelling womb with her hand, his mother Maya was walking for recreation in a deep forest of Angarang trees, diffusing around an exquisite odour. Walking up and down in a pleafant garden, reciting the divine names on her rolary, and radiating in brilliant beauty, and accompanied by two younger fifters of the fame complexion, unable any longer to support the burden of GOTAMA (GAUTAMA,) the leaned on the thoulders of her two younger fifters. Within a deep forest, in a grove of Angarang trees, which diffuled around an exquisite odour, his mother MAYA, firmly grasping the branches with her hands, and standing erect on her feet, brought forth the deity GOTAMA.

THEIR-DHAT OF THIR-DHAT, is the Barma mode of pronouncing Sid'hata, as it is written, which is the Bali corruption of Sidd'har-T'HA. According to this analogy, Budd'ha is pronounced Bu'gda, and Sudd'ho, the contraction of Sùdd'hodana, Suk-to and fometimes Sug-do.

THE following specimen of Barma verse is taken from the Chatu Damasara, as it is termed in Pali, which is denominated the Ko-Khán in Barma.

DESCRIPTION OF VARANASI.

Pyi gyi pyi hu Kyó-níy lú-bő Wesniy kofi Nago k'haing-gaing Hwún hwún di Baranafi Chông ji pyo wa T'ho pyi ma hneik Dana-ma-mé Chawng lé sadéng Meng i tang khúin Chúin gyé han li Khyiuk fuin pyo byo Hna myo mé hlyčang Hmya hné chéng ewé Wan dueng p'hyong tan Makouk yúin di Ta khúin ha ga Hnei'ch kwa mafwé Myew chwé khyé'ch fo Húléng kacha Hloup shya maneyng Kyan k'heng mye chông

Ti di fong ewé Hné lóng makyan Kyéng dan mwé nyek Myék fék niba Peng ga néng t'hek Hní'ch chek mushíh Khan khi si nyin P'hyeang bé pyo t'hu Lû ahwon hné Machan kyéang hmu Leik hléo pyew fa Ché khu hneik chán Raja t'han duéng Ta êng makhyo Kyé ju do gyowng Sépo pyéng gyéwin Myet lé thuin fo Ku-fan hlé deik Pyiuk la fo kha-Ko gwé ya hlien Hman chua chéng chei'ch Phycit pe fo la Néng ngan fa-do Myo ba chế yú

Chéng yé hu-fa
Yé tu khyan p'hyeng
Téng lé khyéng hma
Pyowk keng ché khyéng
Bowng mi kéng ewé
Mwoi shéang lan-owag
Sin myan chông sa
Swé tawng nan puéng
Cho-yan hlueng ga
Meik myiang ko yo
Sivé khyi ko sa

Mito-ketu
Hmat takhu phyièng
Efukari
Kyo hlueng nyi hliép
B'hông cheit ta hmu
Khát fin lu-do
Up'hyu u nék
Sowng teik tweik fi
Hwan teik pyi byi
Hlyéan hlyéan di

BARANASI (Benares) was a beautiful and extensive region, inhabited by a race superior to every other, whether far or near, living fortunate and happy. Baranasi was, in every respect, an admirable country, possessing every thing desirable; for in that kingdom, prevailed the practice of charitable donation, and the performance of ascetic duties. So generous was the heart of the Rajah, that he gave, in charitable donations, the whole amount of his revenue. Devoid of every selfish desire, his mind was onefold, like the point of an arrow. Free from evil inclination, onefold and not double in his speech. Assectionate to all his relations, and beloved of them, remaining firm as a massy roof-beam, no one could prevent or shake his purpose; never deviating from veracity, undivided in heart, excellent in his whole conduct, and his heart devoid of angry passion. Under his sway existed no violence, restraining the desire of his own eyes. Such was his universal character.

Performing no wicked action, and rendering all his people happy, he neglected none of the ten commandments in the practice of general benevolence. Like a bank of fand, which rifes up into an island far at fea, and when the passing ships are wrecked, affording a sure and safe resuge to the mariner. Thus it was that he aided his subjects, who were sinking overwhelmed in missfortune; and thus those who were shivering under the chilling cold, (of distress) were revived by approaching the genial slame of authority. Like the motion of a serpent, cautious in his conduct. His palace was splendid as a mountain of gold: in his presence no enemy durst present himself. Sivakara Kasa Mitra Ketu, with his mind sixed on one object, Yesukari sar celebrated; such was his regal state, that the whole human race, whether white or black, in ten thousand regions, lived in joy and happiness under his sway.

It is difficult to determine, from the Barma text, the true name of this fovereign of Benares; but several names, in some degree similar, as

MITREYA and KETUMAT, occur in a Pauranic list of the Rajas of Benares, descended from Divodasa, which was pointed out to me by Mr.' Colebrooke, of whose notices I have frequently had occasion to avail myself, and a shired month to well was a manual videous

XI. K'HOHME'N .- The K'hôhmen language is used by a nation of that name, who refide on the Me-kon, or river of Kam-bú-cha't or Camboja. It has never been cultivated by Europeans, and I have had no opportunity of examining it. The Siamese, from whom I received my information, affured me that it was entirely different from either the T'hay or the Juan, or language of Cochin China. The K'hôhmen are reckoned an ancient and learned people; and were formerly fubdued by the T'hay-Thay, or ancient Siamese race. The modern T'hay, or Siamese, still denominate the Bali character, Nangsu Khôm, or the K'hôhmén letter, from this nation. They are not, however, supposed to have existed as a polished nation so early as the Law, but are believed to derive their origin from the warlike race of mountaineers named Khô, the Gueos of the early Portugueze historians, who are still represented, as practifing their ancient customs, of eating human flesh, and painting and tattooing their bodies. DE BARROS, however, feems to represent the language of the K'hôhmen as different from that of Camboja, though the Siamese do not diffinguish them. "There are two kingdoms" fays he, "adjacent to each other, and both of them maritime, which have each a peculiar language; the first is termed Como, and the second, Camboja." (Decad. iii. lib. 2. c. 5.)

XII. Law.—The Law language is used by the inland nation of that name, who are generally termed, after the Portugueze writers, Lao,

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and, in the plural, Lass, from their confisting of different races, Their language, DE BARROS observes, is peculiar, and the Siamese affert that it is different from the T'hay. It has never been cultivated by Europeans, very few of whom, besides ALEXANDER DE RHODES, have ever vifited the country. According to KEMPFER, (History of Japan, p. 26.) the Law nation do not differ much from the Siamese, either in language, or writing, except that they are unable to pronounce the letters l and r: and this opinion I am much inclined to adopt, though I have had no favourable opportunity of investigating the subject. If, however, I may be allowed to judge from the specimens of the Law language, which I have been able to procure from Siamese and Barmas, it appears to bear the same relation to the T'hay or Siamese, that the Ruk'heng does to the Barma. With the I 'hay-j'hay it accords more fully than with the T'hay proper; and, in adopting Pali terms, it adheres more accurately to the Pali orthography than either of them. The following short list of words and phrases will convey some idea of the difference which subsists between the T'hay and the Law. As the T'hay-j'hay approaches the Law more nearly than the T'hay, when that dialect uses peculiar terms, I have preferred adducing them, for the fake of comparison. Where the Law and the T'hay agree in the radical, an apparent diverfity is often produced by the conversion of the l and r into h or d.

antoja," (Lenik s	and fores and with belond, to	T'bay.
call,	hông,	riukk,
talk,	fú, para de fú,	phút,
warm, issa basla	all ve bon, a spangaci a	and ron,
very warm,	v termed, after the Fortun	ron uk,

By the Bedle Chinese Pations,

aboundings books, afpect	Lêw To lone from the	T'hay
not know,	bo-hu, bdg-firm	mai ru,
Do you feed	cháw han ka,	nai hén rú,
many, the state of the stand	meng, the timey between	mák, ord zabla tira
fear and my liquid	mésamút,	thălé,
wave,	fông, , amī	klún, nodom
river,	không,	klóng,
numbers and the state of the st	ân, se catalone en la constant	rap,
gold,	kham, wad	thông-kham, thông
hirlead, lies. The heir of the	tông, e termed, by this	tăkúa,
and Brymar allege the bothe	peng, jià, diod sads noisen	t'ham, jia,
It is in the country sood La	pap,	fabút,
matchlock,	fénat,	pùn, Maria Barris
far off, Haguil lo norgile	rated founders of this	that all the distant
kable velliges (;emolband	e left their mod remar	prefented to has
weary,	it,	nucy,
hated, of the Phicon	tcha,o total felt for to a	ekléit, pennal enti
fing.	Ser pade or Adam's to	khap, microniom
grieve,	hái, han their affard	rong,
had give in the manufacture del	hún, on 10 401 501 00 .	thung,
approach,	the facred Bees med	tălât,
market,	kât,	pit, k has sink
thut, guildy suritte ann ac	ratelly bucune at at and fi	nŭa,
heftigle and which d	religion feem to inide	luit,
blood,	hùit,	ALTERY CONTRACTOR OF THE PARTY
fight,	hop, to about 500 as quitto	rop, lúang,
at craft, mob-o' of him av-by	khilái,	jùn,
ftand,	hún,	tă-kiang,
lamp,	kat'hip,	t'ham jang arai,
how is it done? AMATOD	peng jang húdé,	taw rai,
how many?	The state of the s	pra-chan,
moon,	p'ha chan,	pu-jing,
woman, and the someth by	mé jing, out moit de	phu-chay,
man,	pho-chay, wiyung,	muang, Inul alla
country,	hũin,	rùin,
the following tank shoot of	phai,	krai, or kai,
who,	bafandé,	arai, mort, wedn't
what,	pai-ptin,	pai-nún,
go there,	uptions. The sensere man	DE DUNY THE TOPE

Ser. Mil

AND LEADING	Lâto la James de la	T'hay
come here, arti	mà-phé, ud-od	ma-ni, emi
fort; Di mad inn	tapp, osi with	k'Hái, nov c
elder brother,	ay, he smem	pi-pach-ay;
elder fifter, kitt	uci, abmiliam	pi-pu-jing,
mother, moth	īmé, "boés	mé,
I, gnott	ku, anodil	k'hà,
I (honorific)	kha, mi	di-chan;odor
we,	hôw, middle	râu.

IT is from this nation that both Siamese and Barmas allege that they derive their religion, laws and institutions. It is in the country of Law that all the celebrated founders of the religion of Budd'ha are represented to have left their most remarkable vestiges. Ceylon boasts the facred traces of the left foot of Budd'HA on the top of the mountain Amala-Sri-padi, or Adam's Peak. Siam exhibits the traces of the right foot, on the top of the golden mountain Swa-na-bapato. Other traces of the facred steps are sparingly scattered over Pegu, Ava and Arakan; but it is among the Laos, that all the vestiges of the founders of this religion feem to be concentered, and whither devotees repair to worship at the traces of the sacred steps of Pra-Ku-ku son, Pra-Kon-na-kon, Pra-Put-tha-Kat-sop and Pra-Sa-mut-ta-ko-dom. Thefe Siamese names of the four Budd'has feem to correspond to the Barma KAUKASAN, GONAGOM, KASYAPA and GOTAMA, the Singhala, KAKUSAN'DA, KONAGAM, KASYAPA and GAUTAMA. There can be no doubt, however, from the order of the names, but that they are the four last Budd'has in the list given by HEMACHANDRA ACHA'-RYA in the Abhid'bana Chintameni, under the following Sanscrit appellations, from which all these Siumese, Barma and Sing'hala names, seem to be only Bali corruptions. The Sanscrit names are Krukruch'hunda, Kan'-

chana, Kásyapa and Sákyasinha. The language of Láw is represented as abounding in books, especially translations from the Bali; and if the antiquity of the nation can be depended on, they must be extremely interesting, from the situation of the country between China and the other Indo-Chinese nations. The Láw nation consists, like the Siamese, of two different races of people, denominated, in Siamese, Chông-mái and Lan-chang, which are said, by Kæmpfer, to be the names of their chief cities. The first of these are termed, by the Barmas, Yún, and the second, Lain-sain. De Barros adds a third tribe, which he denominates Chan-cray. In their general appearance the Lâw resemble the Môn.

XIII. Anam.—The Anam language is that of Cochin-China and Ton-kin. It is represented by the catholic missionaries to be, likewise, generally used in Champa and Kau-bang; but their affertions must be taken with some limitation when they add, Law, Camboja and Siam. The Anam language, as well as the nation, is often denominated the Juan, by the Malays and Siamese. It has always been more cultivated by the catholic missionaries, than any other of the Indo-Chinese languages, though these fathers may, with some degree of propriety, affect the title of "multiplicis idiomatis propagatores." So early as 1651, the Propaganda Society published at Rome the "Distionarium Annamiticum Lusitanum et Latinum" compiled by the jesuit Alexander de Rhodes, after twelve years residence in Cochin-China and Tonkin, where he had studied under P. Francisco de Pina, the first who acquired skill and facility in that language. In composing his dictionary, he had also the advantage of employing the materials collected by P. Gaspar de Ama-

RAL and P. ANTONIO BARBOSA, the first of whom had made some progress in preparing an Anam and Portugueze dictionary, and the second in compiling one in Portugueze and Anam. This dictionary is printed wholly in the Latin character, as the author confidered the Anam character as too difficult to be useful. It is accompanied by a short grammatical sketch of the Anam language, entitled " Linguæ Annamiticæ seu Tunchinensis brevis Declaratio." Though I have never met with a learned Cochin-Chinese, I have seen several persons who could speak the vulgar language by rote, and have paid sufficient attention to it to perceive, that the dictionary of DE RHODES is a work of very great merit, though certainly fusceptible both of additions and emendations. A new edition of it, would be a work of great utility, if our relations with Cochin China should ever become more intimate or important: a circumstance by no means unlikely, from the formidable aspect which that kingdom has lately assumed among the more easterly nations. The principal defect of the work is, its reprefenting, very imperfectly, the Anam pronunciation; a defect unfortunately very difficult to be remedied, as the Anam language contains many founds which correspond very little to those of any European language, and refpecting which a grammarian might be tempted to fay, with the devout missionary Didacus Collado, when treating of the pronunciation of a Japanese letter, " quando in aliquo vocabulo fuerit (quod est valle frequens) orare debet discipulus, Deum, ut ei venas pronuntiationis aperiat"-(Prolog. in arte Grammat, Japonic. ling. p. 4.) DE RHODES also published at Rome, in 1652, a catechism, for the use of his Anam converts, in Anam and Latin.

FROM the vicinity of the Chinese to the Anam nation, and the intimate connection that has at different periods fublisted between their countries, the Chinese character, as well as literature, has been introduced into both Tonkin and Cochin-China. Chinese literature is greatly affected by all who pretend to distinction in learning, in these countries; and in the language of Anam, the Chinese characters are denominated Chiw. But besides this, another species of character, is in general use, and commonly employed in matters of bufiness and private affairs, which is constructed on a principle entirely different; and though its letters are numerous, they bear no proportion to the Chinese figns, and, according to Ds RHODES, they are unintelligible to the Chinese and those who are unacquainted with the Anam language. These characters, in the Anam language, are termed Nom. What relation they bear to the Bali characters I have not been able to determine accurately, though I suspect they will be found to be connected with that, or the T'hay alphabet. It is perfectly certain, however, that they have no connection with the proper Chinese character. I have been informed, by an intelligent Chinese, who had refided some time in both Siam and Cochin China, that the proper Anam character greatly refembles that of the Siamese. The missionary BORRI fays, that the Cochin Chinese, in harangues, letters, memorials, petitions, " and fuch things as do not belong to printed books, for thefe, of necessity, must be in Chinese characters," generally employ about three thousand characters, which they find sufficient to express their meaning. If the compound characters, and contractions of the Siamese, be included in their alphabet, they would nearly amount to this number, both indound and headerston with words in the A

THE Chinese character forms, in reality, an abstract, philosophical language, such as has long been the theme of speculation in Europe, though it is generally regarded as an absurd and impossible reverie. It is not indicative of sounds, but of real objects and ideas; and consequently it is read and understood by at least twenty different nations, who would scarcely understand a word of one another's oral language, and would all use different words to express the same meaning. The only European characters, analogous to the Chinese symbolical written language are our numeral, algebraical, astronomical and chemical signs, which are constructed on the same abstract principles. The Chinese, however, sometimes contrive to make these singular characters perform a double office, and express sounds, as well as ideas; as when they write down English names, which another person can pronounce with great accuracy. As far as I have been able to learn, however, this can only be accomplished by persons who use the same spoken language.

THE Anam language is simple, original, and monosyllabic. What relations it may possibly bear to some of the spoken monosyllabic languages of China, to the Man-chèw-Tartar, to the Korean, Formosan, Likyu, or rather Riu-kiu languages, I cannot possibly pretend to determine; but it certainly has very little affinity to the Mandarin or court language of China which is properly termed Khunn; to the Köng-töng, or language of Canton; to the copious polysyllabic and inflected Japanese; or to any of the other Indo-Chinese languages.

Ir is certainly possible to find feveral Anam vocables which coincide both in found and fignification with words in the Khunn or Mandarin-

Chinese, and also in the Kông-tông, as well as others, which closely refemble T'hay or Siamese vocables; but nevertheless, all the effential parts of the Anam language are original and unconnected with any of the other monofyllabic languages, of which I have any knowledge. BARROW, an authority of some weight, in his "Voyage to Cochin-China," feems to confider the Anam as a derivative from the Chinese, " because it is constructed on the same principle." (p. 301.) " The spoken language," he observes, "has undergone a very considerable change, which is the less furprising, as the inhabitants of the northern and fouthern provinces of China, are unintelligible to each other; but though it has been altered, it does not appear to have received any improvement, neither from additions of their own, nor from the introduction of foreign words." (p. 322.) The precise meaning of this sentence, I confess I do not understand. The mass of the Anam language, whether nouns, verbs, or fignificant particles, is totally different from that spoken Chinese language with which he has compared it; and he himfelf admits, "That it is so much changed from the original, as to be nearly, if not wholly, unintelligible to a Chinese." The Anam nation employ feveral founds and letters which are incapable of being pronounced by a Chinese, such as b, d and r. The particles which form the cement, or construction of the language, are also different; and in addition to all thefe, the Anam language has a peculiar character of its own, which is not understood by the Chinese. It is difficult, after this, to conceive what fimilarity exists between the Chinese and Anam, unless that they are both monofyllabic languages, and that the fignification of terms is regulated, in a great measure, by their accentuation. But

though the same monofyllables occur, and though they are also accented frequently in a fimilar manner, yet even in this case, the fignification of these monofyllables is, for the most part, totally different. In the syntax or construction of the two languages, there is also a very great difference, for in almost all the instances in which the Barma language differs in construction from the Malayu, Thay, and Anam, the Chinese agrees with the Barma, and differs from the three others. Thus, when two fub-Stantives follow each other, in Chinese and Barma, the first is in the genitive or oblique case; whereas, in Malayu, T'bay and Anam, the second is in the oblique case. Sometimes, too, the Chinese order of arrangement differs equally from them all. Thus, in Chinese, the adjective generally precedes the substantive, whereas it follows it in Malayu, Barma, T'hay and Anam. It must be observed, however, that when the term Chinese is applied to the spoken languages of China, it is used in a very wide signisication, unless some particular province be specified. The Chinese colloquial languages appear to be more numerous than the Indo-Chinese tongues, and equally unconnected with each other. BARROW himfelf declares, that scarcely two provinces in China have the same oral language. (Travels in China, p. 244.) While the nature of the Chinese character is still so imperfectly understood, it is not surprizing that the investigation of the spoken languages of China has been totally neglected. In the course of some enquiries that I made among the Chinese of Penang, I found that four or five languages were current among them, which were totally diffinct from each other, and the names of several others were mentioned. I was informed that the principal Chinese languages were ten in number; but I have found that confiderable variety occurred in the

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enumeration of their names, and suspect that they are considerably more numerous, in reality. The following is one of the lists I received of these ten languages; but I have since been informed that it relates only to those which are spoken in the southern and western provinces.

1	Kông,	6	Lüi,
2	Wáy,	7	Limm,
3	Nâm,	8	Khunn,
4	Chéw,	9	Siw
5	Sew, or are astanded and like	10	Kunng.

Or these, as has been stated, the first is represented as the language of Canton, and the eighth as the Mandarin language, or that which prevails in Pekin. To this list may be added the following:

11.	Hyong-fan,	14.	Pún-ngi,
12.	Sun=tukk,	15.	Tông-khún,
13.	Nam-hói,	16.	Fo-khin.

THE last of these is denominated Chin-chew by the Chinese of Macao; but the language spoken in Macao itself, is the Hyong-San. This enumeration, however, is extremely impersect; nor have I been able to determine which of them are to be accounted original languages, and which dialects. Neither, without particular investigation, is it possible to ascertain, whether the Anam language may not be included in this enumeration, though I am rather inclined to the contrary opinion.

THE Anam language has neither genders, numbers, nor cases; moods, tenses, nor conjugations; all these are supplied by the use of particles and the juxta position of words, as in the other monosyllabic languages. The same word has often the signification of both a noun and a verb, and its particular use, in such a case, is to be determined by the con-

they were extremely distressed about the propriety of the terms to be used, whenever God the Father, Jesus Christ, The Holy Ghost, or the Virgin Mary, were to be introduced as interlocutors, and dismally puzzled whether the Virgin ought to denominate herself, tôi, handmaid, or mé, mother, in addressing her son Jesus Christ; as a very trivial change of phraseology, in a language so delicate in its shades and distinctions, might have given origin to the most dangerous heresy.

THE accents, in the Anam tongue, are of fuch indispensable utility, that they have been very properly termed the foul of the language, while the primary monofyllables, varied by accent, have been made to represent its body. Conversation is a species of chaunt, or recitative, as in the Chinese dialects, and the other monofyllabic languages, which has, at first, a very ludicrous effect to an ear unaccustomed to it. The intonation, or accent of the Anam, struck me as entirely fimilar to Chinese, though BORRI, the catholic millionary, to whom it was familiar, pronounces it fofter and sweeter, more harmonious and copious in both its tones and accents. He adds, that every word expresses a variety of significations, according to the diverfity of accents with which it is pronounced; fo that, to converse in it correctly, a person ought to understand the grounds of music. That he ought to have an ear of the most delicate fensibility is indisputable; and as this can never prevail very equally in a numerous nation, this variety of accent gives rife to such divertity of dialect, that through the whole Anam region, every confiderable village or diffrict has, as it were, a different language, and are often obliged to

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have recourse to the written character, for communication with the dif-

Borriaffirms, that the facred books of the Anam nation, are termed Sek King, while those relative to civil subjects are denominated Sek Chuw. He adds, that the first treat of the creation of the world, the nature of mind, the different classes of intelligent beings, morals and metaphysical theology; but both these classes of books seem rather to refer to Chinese literature, than to that which is peculiarly Anam; for Sek signifies only book, Chúw is the name applied to the Chinese character, and King is the name of the books first put into the hands of the students of Chinese literature. Numerous Tru-yèn or Cheritras, however, are known to exist in the Anam language and form the subject of their dramatic representations, in which the Anam nation are not inserior to the Chinese.

The ancient code of Tonkin laws, possessed great celebrity, and was highly venerated previous to the late conquest of that country by the Cochin-Chinese. It is represented, by the missionary Le Roy, as composed in the most elevated style of Chinese, and full of uncommon modes of expression. He also mentions, that it was printed with an Anam translation, composed by an ancient Tonkin Mandarin.

The Anam style is sometimes highly bold and figurative, and attains a degree of animation which is not very common among the Indo-Chinese nations of the continent. If the French version can be depended on, we need only refer, in proof of this, to the manifesto issued by the usurper Quanctround, in 1790, to quiet the minds of his subjects, alarmed at the reports of the prowess of the French auxiliaries, who aided the first

efforts of the present monarch for the recovery of his throne, "Be not so credulous as to listen to what they say of the Europeans. What superior ability should that race be possessed of? They have all the eyes of green serpents, and we ought only to regard them as floating corpses, cast on our shores by the seas of the north," (Nouvelles des missions Orientales—p. 144.)

The religion of the Anam nation is a modification of the Budd'hist fystem, nearly resembling that which prevails in China. Many local and peculiar superstitions, however, are blended with it; such as the worship of the dog and tiger, to the first of which human excrement, and to the second, human sless is offered. Traces of this worship are found among the mountaineers on the borders of India, as well as in the proper Indo-Chinese countries. Thus the tiger is worshipped by the Hajin tribe, in the vicinity of the Garrows or Garudás.

The Quan-tô, an ancient race, as the name fignifies, who inhabit Kausbang or the mountainous range which divides the Anam countries from China, regardthemselves as the original inhabitants of Tonkin and Cochin-China; and consider the Anam as a Chinese colony. The Quan tô have a peculiar language, and write with a style, on the leaves of a plant, termed, in Anam, jiwa. The Môi and Múòng are also mountaineer tribes, who speak languages different from the Anam, but it is hitherto unknown whether they are original races, or only branches of the Quan-tô.

THE following comparative vocabulary of the Barma, Thay, and Anam languages, with the Kong dialect of the Chinese, will convey fome idea of their mutual relations and differences. A few Rukheng

variations are also exhibited in the Barma column with the initial R. prefixed.

	THE REL	Barma.	T'hay.	Anam.	Kong-Chinese.
	God	prá yieng	pra-cháw	chúa	funn, t'hien-chí
, de	heaven	nip-ban	făwan	t'hién	t'hien
	the earth	kam-ba	pi-p'hop	'dia	t'hien-ha
	earth		dín	'dat	ti sine
9	air	16	lóm	phú-jyő	húng
-	water	yé R. ré	nam	nák, nuwok, thuy	fói
	fire	mí R. meing	fài	lúwa, hóa	ffôö
	fun	né	tawàa	nyít, mât-bloei	thai-yong, ngùt
	moon	lă	dùin	nguyit, mat-blang	ngùit
	ftar	kyi R. kri	dàw	faw, tinh	tin-fung
	fky	mó	fâ	bloei	mun-t'hien
	fea	peng-lé	tă-lé	be, bien, hai	hõë
	river .	k'hyong R. kh'rôn	klong	fû n7-m	hó v
	animal	tareich-chan	făt	thu	chhôk-lới
	bird	hngék	nók *	ching	chhéok-chay
	fish	ngâ	plà	ka diameter	ngù
	plant	apéng	tón –	thúw,	ch'háw
	Arce	apéng gyi	tón-mái	fang	fû, fût
	leaf	ayéwék	bží	lá	hyep
	hill	towng	p'hu-khaw	núi	fan
	plain	lé-bieng	t'hung	'dów, nù	phéng
	flone	kylowk	hín	'dá	fyŭk, lië
	gold	ſwé	t'hòng	wáng	kumm
	filver	ngwé	ngùn	bak	ngúnn
	brass	kyé	t'hong-k'ham	t'haw	t'hóng
	iron	fan	lék .	thiet, fat	thit
	tin	khé	tă kóă	thick	fyšk
	rice	ch'han	ká-făn	gàw, lúa, kōem	mây
	egg	ú	khài	tlueng	ch'hônn
	day	ně	wán	ngày	yat
	night	nya	k'hùn	'dê m	man
	evening	nya-në	kham	ban-hom	ya
	morning	manék	cháw	fang-nyay	chew
	month	la	dùin	thang	yue, ngèit
	year	neit	pí min-co-	nien, nam, tuë, tuôi	nín de la

in table !	Barma.	T'hay.	Anam.	Kong-Chinese.
man	lu	khŏn	ngúwói	yun
man	yowk-kya	pacháy	nam	nan-yun
woman	mim-ma	paning	núw	nyu-yun
father	p'haé	p'hó	cha	hù, fú
mother	maé	mé	mé	mu
hufband	léng	p'húwă	chaw, phu	law k'hung
wife	maya	miya	wwó, t'he	láw-p'ho
fon	fa	lok pachay	kon-blai	chí on
daughter	fa-mi	lok paning	kon-gai	ngúë
7.15-1.110-1.110-1.11	- ako	p'hi-pachay	anh	akko
}				
younger the		nong pachay	éng	tí -
elder Tif-	umma	pi păjing	chi	amui
younger Ster	nyi-ma	nong-paning	éng	moéi
friend	fang-é-gyien	klù	nghía	púng-yôw
enemy	yan-fu	fatrú	nghéich, thu	tzow-yun-
head-	gowng	huă	thù, 'dâu	thôw
face	hmick-na	ná	mat, may mat	míën
eye	hmiek-chei'ch	tá	nyan, môk, mát	18 July 19 July 19
000			kon-mát	ngān
nole	nakhaung	täműk	műi	pi
ear	na	hu	tái da	ngi
mouth	pajat	pâk .	khau, mieng, 16-7	, a
anouth	A ALLES	The same of the	a south a	how
	Was to the same		mieng	
tooth	fwa	fan	răng	ngá
tongue	fha	lin	luwoi	li
hand	lék	mù	tay	fow
foot	khyé	tín	chên	khúok
belly	wún	p'húng, thống	deà, bâw	t'hú
back	kyó	lang	kât	püi-hów
fkin	ayé, fayé.R.aré, fare	é nang	děa	phi
bone	ayo. R. aro	kădúk	kôt, shwang-kôt	ka
fleih	afa	nùă	thit	héwŭk :
blood	fwè	luit	máu tiet	hit
milk	no-yé	nám-nóm	fuwa	nín
eat	chá	kín	an	kič
drink	fók	kín-nám	üông	yûm
				The same of the sa

	Barma.	771		-13
ftand	mat-tar	T'hay.	Anam.	Kong-Chinese.
fit	t'haing	and the second second	dueng	khi
fleep	ít	náng	ngôi	cho
firike	yeik		ngú	mi
kill	fat-pi'ch	ti a.n.	'dam, 'danh	wat
red	ani	k'ha	jiet, fat	fat
green	acheing	dêng	do, tham	húng
yellow	awa	k'héow	Manh	lok
white	ap'hyu	lùang	hoa ka, vang	wóng
black	anék	kháw	tlang, bak	pâk
one	tít	dam	tham, ak	húkk
two	hoft	nûng ·	mot	yútt
three	fông	fông fâm	hui	ni
four	lé .	fi	teng	fam
five	nga	ha	bon	fi di
fix	khyowk	hŏk	lang	áng
feven -	khuhních		lak	lok
eight	fhyft	chét	bai	chhat
nine	kó	pét kàw	tang	pat
ten	tă ché		chin	kow
hundred	tă rấ	síp	tap	fap
thoufand	tă c'hawng	rôi p'hân	klang	pák
1	kyewin-non'p	k'há	kin	chin
We	khewin-nou'p-do	ráu	tôi, tấu, ta, kwa	ngo, nga
thou	méng	mung	chúng-toi, moi-toi	The state of the s
ye	maung, meng-do	fú	bái, mái, ngúwoi	ní
he	dén	măn	chúng-bái, moi-bá	
they	den-do	măn arái	nó	k'hi, t'ha
who	bedu, belu	kāi.	chúng-nô	k'hi-té, t'ha-té
what	bahá	arái	nào	nāko
which	bédéng	anei	não (placed after a	méyă
	200			nako
all	along	t'hang-phé,	word)	
	为为格兰生生	DINES TO ALL	kak	tátás
The same	Carlo Con.	thang-mót	J	
many	apowng	mak	deù, nyeù	tő
few	cheich-cha-gulé	hit, nit	bé, dó, nyó	tuk, fhaw
any, fome	takhyo	kái kái	ko-ai	yów
above	at'hék	bŏn.	tlen .	fhyang
				Water to the same

La Marie	Barma.	T'hay.	- Anam.	Kong-Chinese.
aunder	awk	tái, láng	chuếng	há
in	at'hé	-may	oci, tlàw	li, în
without	pyfeng	nók	vo, cháng-ko,	ngöàï ngoi, waí
fo	ko, go	ké	cho	ni, ū
from	ka, ga	té	boei	tzong
this	di-hu	ni	nây	téko
that	ho-hu	nun	ey, no	koko
there	ho hma	tino	bên-nò	nuné
here	di hma	-tînî	/bên-nây	koné
before	fhyé	-na	-tluwók	efin
behind	nawk	t'hi lầng	fau	hôw

XIV. PALI'.-The Pali language, among the Indo-Chinese nations, occupies the same place which Sanscrit holds among the Hindus, or Arabic among the followers of ISLAM. Throughout the greater part of the maritime countries which lie between India and China, it is the language of religion, law, literature and science, and has had an extensive influence in modifying the vernacular languages of these regions. The name of this language, though commonly pronounced Balí, is more generally written Pali; but both forms are occasionally used. As the origin of the word is still very obscure, it is difficult to determine which is the more correct orthography. If, however, we could venture to identify the term with the Báhlika b'hasha, which, in the SAHI'TYA DE'RPANA of Viswanatha, is enumerated as one of the languages proper to be used by certain characters, in dramatic works, the latter ought to be confidered as the more correct. LA LOUBERE, on the authority of D'HERBELOT, has stated (Tom. I. p. 422) that the ancient Persic language was termed Pahalevi, (Pahlaví) and that the Persians do not diftinguish in writing between Pahali and Bahali. This conjecture would be confirmed by the identity of the terms Bali and Bahlika Phasha, were geography, the epithet Báhlika is applied to a northern Indo-Persic region, probably corresponding to Bálkh Bámiyan. Among the Indo-Chinese nations, the Balí is frequently denominated Lanka-basa, or the language of Lanka, and Magata, or, as it is often pronounced, Mungata, a term which seems to correspond with the Sanscrit Magadhi, which, in many of the Vyakaranas, is enumerated as one of the dialects proper to be used by certain characters introduced in Natakas, or Hindú dramas. According to Kæmprer, the Balí, in the Khom language, and by the inhabitants of Pegu, was termed "Maccata-pasa," or Magadhi bhasha, as we may safely venture to render it. P. Paulinus however applies this term inaccurately to the square Balí character, instead of the language (Mus. Borg. p. 1.)

This language, notwithstanding its extensive use among so many nations, and the degree of cultivation which it has received from the disferent tribes by whom it is employed, has hitherto attracted little attention among Europeans. The indefatigable Koempfer, in his "Amanitates Exotica," has very imperfectly exhibited the Bahi alphabet. La Loubere had previously published it more correctly, according to the form employed among the Siamese; his Bali alphabet is repeated in the French Encyclopædia, and Carpanius, in his "Alphabetum Barmanum," has exhibited the simple letters, according to the square form, employed by the Barmas. La Loubere, in his "Historical Relation of Siam," has published "The Life of Thevetat," said to be translated from the Bali, with a fragment termed "An Explanation of the Patimoue, or Text of the Vinac." P. Paulinus a S. Bartholomaeo, in his "Museum Borthe Vinac." P. Paulinus a S. Bartholomaeo, in his "Museum Borthe Vinac."

gianum," has, in his usual petulant, inaccurate, and desultory manner, exhibited fome confused notices concerning the Bidagat, the Padi-mauka, the Kammuva, and a "Compendium of the Barman Laws," composed in the Pali language. Dr. F. BUCHANAN, in his "Essay on the Religion and . Literature of the Barmas," (Afiat. Refearch, vol. vi.) has published a translation of the "Kammua," executed from the Latin version of VIN-CENTIO SANGERMANO, which differs confiderably from the notices concerning that work published by P. PAULINUS, according to whom, in 1776, an Italian translation of it was made in Pegu, at the instance of cardinal Borgia. Whether any of these versions have been made directly from the Pali, or only through the medium of a Barma or Siamese version, is, at least, very dubious; but the enumeration may suffice to show how far the attention of Europeans has been turned to this language. It would appear, that the learned LA CROZE, in his epiffolary correspondence, has also treated concerning the relations and affinities of the Pali, but I have had no opportunity of confulting the collection of his letters. P. PAULINUS, in his coarfe, acrimonious, and offensive way has also obtruded on the public, some conjectures concerning it, but the publication of his "VYACARANA, seu locupletissima Samscrdamicae linguae Institutio," Romae 1804, has given a death-blow to his vaunted pretenfions to profound oriental learning; and shown, as was previoully suspected, that he was incapable of accurately distinguishing Sanscrit from the vernacular languages of India.

The philological merits or demerits of P. PAULINUS form no part of the proper fablect of this effay; he is only mentioned here for the purpose of disclaiming his critical authority, when placed, as it has frequently been, by European writers, in competition with such authorities in Hindú literature, as Sir W. Jones, or Mr. Colebrooke. In his

THE Balí alphabet seems, in its origin, to be a derivative from the Deva-nagari, though it has not only acquired considerable difference of form, but has also been modified to a certain degree, in the power of the letters, by the monosyllabic pronunciation of the Indo-Chinese nations. It has dropped, in common use, some letters entirely, and accented others in a manner similar to the U'd'hata, Anud'hata, and Swarita tones, in the system of accentuation used in chaunting Mantrás, and in reciting the Vedas themselves. Thus, it has dropped both the palatal and the celebral sh of the Deva-nagari, as well as the double consonant ksh, though

Museum Borgianum he has miltaken a specimen of Malayu for Bengali; but this is nothing to what occurs in his Sanscrit Grammar. The fame blunder had been made before him, by the Editors of the polyglott " Oratio Dominica:" but the following are his own. A numerous class of Sanscrit nouns form the fifth case in AT; in Tamul and Malayalam, however, a case of fimilar import terminates in AL; and this case, which belongs to these vernacular languages, but never to Sanscrit, has P. PAULINUS uniformly substituted, in his Sanscrit Grammar, in the place of the regular Sanscrit flection in AT! This substitution of the letter I for I is not confined to those instances only, in which the analogous slections of a vernacular language may be supposed to have led to the error; it occurs in numerous instances, in which the Sanscrit and popular dialects coincide in using the letter 1, and which must therefore be considered as the blunders of absolute ignorance. Thus, in the names of the tenses of the Santcrit verb, he gives lal for lat, lol for lot, lil for lid, and lul for lud. A blunder similar to that which occurs in the fifth case of nouns, runs through a variety of the flections of the Sanscrit verb. Thus, he gives abhaval for ab'havat, bhavadal for b'havatat, bhavel for b'havat, bhuyal for b'huyat, abhul for ab'hut; abhaviszyal for ab'havishyat; but the whole work fwarms with fimilar errors. What should we think of a Latin grammarian who should falsify the ablative case in nouns, and misrepresent the third person singular in verbs? Yet this is nothing more than what has been done by the redoubted P. PAULINUS, whom the learned SYLVES-TRE DE SACY terms "un des ecrivains les plus tranchans et les plus dedzigneux;" and he has not only erred in the particular inflances which he has adduced in his Grammar, but he has also laid down rules to justify his errors, as, in his rules for the permutation of the letter ! into 1, d, db &c. All his other works, that have fallen into my hands, equally abound in error, arrogance and ignorance. Equally superficial, inaccurate, and virulent in his invective, a critic of his own flamp would be tempted to retort on him, his own quotation from ENNIUS." Simia quam fimilis turpiffima bestia vobis. the two first are still retained in the more correct alphabets. Instead of pronouncing the first series of letters ha kha, ga gha, nga, it recites them ha kha, ha gaha, nga, pronouncing ha thrice; first, in its natural tone; secondly, softly accented in treble, as if with the tone údhata; and thirdly, in a deep base tone, like the anúdhata of the Samavedá Brahméns; gaha or ga is only recited once and that slightly accented, while nga suffers no alteration. A similar alteration occurs in the second series, cha, and the sisth series, pa. The vowels are generally presented in the same order as the Deva nagari, but by a similar mode of accentuation, eighteen are sometimes employed. The peculiarities of this pronunciation are, however, more closely adhered to by the Thay or Siamese, than by the Barma and Rukhéng nations, whose languages are neither so powerfully accented, nor so monosyllabic as the Thay.

The form of the Bali character varies effentially among the different nations by whom it is used. The square Bali character, employed by the Barmas, differs much from that which is used among the Siamese, and approaches nearer the form of the Barma character. The Siamese Bali character is termed, by the Siamese, Nangsu Khôm, the Khôm, or Khôhmên character; having, according to their own tradition, derived it from that nation. The square Barma character seems to coincide with the Bali character of Lanka or Ceylon; though in that island, Bali compositions are frequently written in the proper Sing'hala character. Of the character used in Lâw, Champa, and Anam, I have had no opportunity of judging. Carpanius, in his "Alphabetum Barmanum," p. 37, afferts, that La Louberg, in his "Historical Relation of Siam," has mistaken the Barma and Lâw characters for the Bali; and Sir W. Jones, in his

8th anniversary discourse, is I understand him, affirms the same thing, on the authority of a native of Arakan. The sast, however, is, that La Loubere's alphabet, though impersect, as the vowels are omitted, and the powers of several letters inaccurately expressed, is the real Bali alphabet of the Siamese, and that which I have found in use among the Talapoins, both of the Thay and the Thay j'hay race, however it may differ from the Bali, in use among the Barma and Rukhing nations. This character, however, when correctly written, is not round like the proper Barma character, but formed by a number of minute strokes, placed in an angular position, like the Sing'hala Pushpákshara, or flower-character. Indeed, on comparing the two characters, the square Barma-Bali character will be found to approach nearer the proper Barma character, than the Bali of Siam.

THE Balt is an ancient dialect of Sanscrit, which fometimes approaches very near the original. When allowance is made for the regular interchange of certain letters, the elifion of harsh consonants, and the contraction of similar syllables, all the vocables which occur in its ancient books, seem to be purely Sanscrit. In Cheritrás and latter compositions, however, some words of the popular languages of the country sometimes infinuate themselves, in the same manner as Tamul, Telinga, and Canara vocables occasionally occur, in the later Sanscrit compositions of the Dekhin. The Balt, while itretains almost the whole extent of Sanscrit slections, both in nouns and verbs, nevertheless employs this variety rather sparingly in composition, and affects the frequent introduction of the preterite participle, and the use of impersonal verbs. It also uses the

cases of nouns in a more indeterminate manner than the Sanscrit, and often consounds the active, neuter, and passive tenses of verbs. Like other derivative dialects, it occasionally uses Sanscrit nouns and particles in an oblique sense; but notwithstanding all these circumstances, it approaches much nearer the pure Sanscrit, than any other dialect, and exhibits a close affinity to the Prákrit, and the Zend.

THESE three dialects, the Prákrit, the Balí, and the Zend, are probably the most ancient derivatives from the Sanscrit. The great mass of vocables in all the three, and even the forms of flection, both in verbs and nouns, are derived from the Sanscrit, according to regular laws of elision, contraction, and permutation of letters. Sometimes, in purfuing these analogies, they nearly coincide, sometimes they differ considerably, fometimes one, and fometimes another of them approaches nearest to the original Sanscrit. Their connection with this parent language was perceived, and pointed out by Sir W. Jones, and has also been alluded to by P. PAULINUS, who derives his information, concerning the Bali, from CARPANIUS and MANTEGATIUS. The fate of these three languages is also, in some degree, similar. The Prakrit is the language which contains the greater part of the facred books of the Jainas; the Bali is equally revered among the followers of Budd'HA; while the Zend, or facred language of ancient Iran, has long enjoyed a fimilar rank among the Parsis or worshippers of fire, and been the depository of the sacred books of ZOROASTER. It is, perhaps, however, more accurate to confider all the three, rather as different dialects of the same derivative language, than as different languages; and conformably to this idea, the Bali itself may be reckoned a dialect of Prákrit. The term Prákrit, both in

books, and in common use among the Brahmens, is employed with some degree of latitude. Sometimes the term is confined to a particular dialect, employed by the Jainas, as the language of religion and science, and appropriated to semales, and respectable characters of an inferior class, in dramas. Sometimes it includes all the dialects derived immediately from the Sanscrit, whether denominated Prakrit, Magad'hi, Suraseni, Pais'achi, or Apábhrans'a; and sometimes it is even extended to the Désa-b'háshás, or popular tongues of India, as Mahrásht or Mahratta, Canara, Telinga, Udia and Bengáli. According to the extended use of the term Prákrit, it may certainly include both Balí and Zend; and if more extensive research should justify the idea derived from an impersect investigation, I apprehend that the Balí may be identified with the Mágad'hi, and the Zend with the Súraseni, of Sanscrit authors.

THESE three dialects, the Prákrit, Balí, and Zend, have been regularly cultivated and fixed by composition. The same laws of derivation are applicable to the formation of all the three; but yet there is often considerable diversity in the forms which particular words assume, as appears from the following comparative specimen.

100	Sanscrit.	Prákrit.	Ball.	Zend.
man	purufhah	purifo	burutfa	peôorofcho
woman	ftrí	trí	it'hi	ftrée
daughter	putri	puí	butri	pothré
wife	b'harya	bhariá }	p'hiriya	peéré }
father	pitá	piá piáró }	pita	fedré
mother	matá	maã maŭró }	dan matta	maté,
wind	váyuh	baŭ .	T Vayo	vato

ARTHUR DIVINE	Sanferit.	Prákrit.	Balt.	Zend.
fire	agnih	aggih	ak hi	atéré.
			atfa 2	alpo
horfe	as wah	áló	acha S	afpahé
hog	s'ûkarah	fuaró	fukaro	foubaré
	Contraction of	Terra Torra	funak'ha	funish ?
dog	s'wá, s'wánum	funău		fepa 5
buffalo.	mahifhah	mahifó	mahingfa	metha
hand	haftah	hattó	hafti	zeftê
fon	furyah ?	furó /	furiya	houere
A CALLED A	ravih 5	rai)	rav6	recoulé
tiger	vyagrah	bag'hō	p'hayagho-	azra }
tree	vrukshah	rukhó vuch'hah	rukha	orot'hê
village	grámam	gấmam }	khaman	gueoué
the lingum-	lingam	linkam	lankan	henghame
mountain	parvatali	pabban }	bapato	berezocté
world	prit'hivî	pahavf	pattwe	peété
forest	aranyam	rannam	aranja	beramn
he enters	pravifhatí	pavishaï	pawifi	freescheta
they will come	ágamifhwantí	ágamihit	akamifunti	acontião
he makes	karoti	karoi	karoti	kereté
		atti]	EVI MARK	
he is	afti	achi >	hathī	afté
I STATE OF		asai J	0.00.00	1
feven	faptah -	fattó	fapta	hapté
heaven	fwargah	faggó	figgó	fpérézé
The second secon		THE RESERVE OF THE PARTY OF THE		

In this specimen, the Prakrit words are selected from the Manorama Vritti of B'HAMAHA, and the Prákritalankes warak of VIDYA' VINÓ. D'на; the Bali are taken at random from the Kumára-Bap, Chitamnán, and Hatamnán; and the Zend, from the vocabularies of ANQUETIL DU PERRON, whose orthography, fince I have not been able to procure the original Zend, has been preserved, however inaccurate, in preserence to conjectural emendation; though I am convinced that an orthography, more conformable to the original, would render the connection of Zend, with its cognate dialects, more apparent.

Specimen of Bali from the Hatamnan,

SAGOR' kámécharupé giri-s'ik'hara-gaté chántalikk'hé vimánédipé rat'hé-cha gamé taruvanagahané géhavat'hamhí k'hétté

B'hummá cháyàntu deva: jala-t'hala-vifamé yakha-gandabba-naga tit'hantámantikéyám munivara-vachanam fádavo mé funantu

D'hammassa-vanakáló-ayum bhaddantá namótaffa-B'hagavató Arhattó s'amma fambuddaffa.

Yéfantá-fantachitta-tifarano-faraná éta-lókantarévá bhummá-bhummá-cha dévá guna-gana-gahaná d'háyatá fabbakálam été áyántu dévá varakanakamaé méru-rájé vafantó.

Santófahétam munivaravachanam fótam maggam fammaggam fabbélú chakkaválélú yakhá dévá-cha bramhanó.

Which may be thus restored into Sanscrit, without the radical change of a single word.

Swarge kámécharúpé giris'ikharagaté chántaríkíhé vimáné dipé ráshtré grámé taruvanagahané grihavatihi kshétré.

Bhúmau cháyántu dévá jalast hala-vishamé yaksha-gandharvz-nágás tist hantám antiképám munivaravachanam sád havó mé s'sinantu.

Dhermas'ravanakálóyum b'hanyantam: namastasya B'hagavató Arható-samyak sam-budd'hasma.

Yésantah s'ánta-chitta trisarana s'araná ihalókóttarévá b'humau ab'humaucha, dévá gunaganagrahaná d'hayantah servakálam: été áyántu dévá varakanakamaé mérurajé vasantah.

Santoshahesum munivaravachanam s'rótum agré samagram servéshu chakravaléshu yakshá déváscha brámhanah,

The Devas frequent Swurga, Kamarupa, the mountain tops, and atmosphere, in their cars, and on earth, they visit the Dwipas, the fields, cities, recesses of forests, habitations, and facred places. In inaccessible places, by land or water, the Yakshas, Gandbervas and Nagas reside, in the vicinity of waters. Lilten to me, ye devotees, while

I recite the words of the Munivaras: this is the time for hearing facred things—(the devotees reply) Say on. (the speaker proceeds) Reverence to BHAGAVATA ARHATA, the all-comprehending. Those who hear, shall become pure of mind, and TRISA-RANA' shall protect them both in this and other worlds: the Devas, earthly and unearthly, possessed of various qualities, constantly present themselves to their thoughts, and the Devas who reside on Meru, the chief of mountains, of pure gold, frequent them. In the full and perfect hearing of the words of the Munivaras, the Yaksbas, Devas, and Brambanas delight above all else.

This specimen may serve, in some degree, to illustrate the relation which the Bali bears to its parent Sanscrit. The passage is chosen at random, but considerable portions of Bali have been subjected to the same process with a similar result; and I am satisfied that it applies equally to Prákrit and Zend, though words of an origin foreign to Sanscrit, may occasionally be expected to occur in all the three dialects.

AFTER having thus briefly stated the origin of both the Bali language and written character, I should, in conformity to the plan which has been followed in this rapid sketch, proceed to the illustration of its characteristic structure and grammatical peculiarities, with the relations which it bears to Prákrit and Zend; but these, with a view of Bali literature, and its influence, as a learned language, on the vernacular Indo-Chinese tongues, I reserve for the subject of another essay. The politeness and literary zeal of Mr. Colebrooke, have surnished me with ample facilities of investigating the Prákrit, in all its variety of dialects; but the paucity of my original materials, in Bali, and the total want of Mss. in Zend, have hitherto prevented me from giving the subject so full an investigation as its importance requires; but if the necessary materials can be procured, I hope to be soon able to submit to the Assatic

Society the refult of my enquiries. Of the Bali language, different Koshas and Vyakaranas are known to exist; and several of them are to be procured in Ceylon, as the Bali 'Subdamala, Balavatara, Nigandu and Nigandu Sana. Of the Zend, various alphabets and vocabularies, as well as original compositions, are extant; but no set of grammaticalforms, with which we are acquainted. The learned Tychsen, in his differtation " De Cuneatis Inscriptionibus Persepolitanis," 1798, recommends, earnestly, to the Asiatic Society, to form grammars and lexicons of the Zend and Pahlavi; and this must undoubtedly be performed if ever the subject be accurately investigated; for as yet we are imperfectly acquainted even with the true arrangement of the Zend alphabet, though it is probably the origin of the ancient Kufic character, if not the actual Himyaric character itself. I have at present little doubt that the character of the ancient Zend, or as it is termed, according to ANQUETIL DU PER-RON's orthography, Azieante, is derived from the Deva nagari; for that author himself admits that the vowels coincide with the Guzeratti, and hints that in some alphabets the consonants also have a similar arrangement. Numerous circumstances likewise lead us to conjecture, that if ever the Persepolitan inscriptions in the Arrow character are decyphered, it will be on the principles of this alphabet. NIEBHUR has stated, from actual observation, that the characters of these inscriptions are certainly written from left to right, like the Deva-nagari, and the alphabets derived from it. If this authority can be depended on, it completely fets afide every attempt to explain them by any alphabet written from the right hand to the left. A fubject, however, like the Arrow character, concerning which there are almost as many opinions, as authors who have engaged in the discussion, can never be illustrated by mere conjectures, however ingenious or plausible.*

• In revising the sheets of this essay, I perceive that several omissions have occurred from the number and nature of the various materials employed, and the dissiculty of classing them in the proper order of arrangement. The following additions are therefore subjoined.

To the notices concerning Malay.compositions, the following may be added.

- Asál agáma Islam, or the principles of the Islam faith.
- Idlal agáma Islam, explanation of the Islamic worthip.
- Idlalu'l fikeh, explanation of the law of Islam.
- 4. Makóta fegála Raja.
- 5. Pafiru'l Korán.
- 6. Hafid Imam. ul Mumenin.
- 7. Hikaiat Miáraj Nabi Mahummed.
- 8. Hikaiat Nabi Mahummed.
- 9. Hikajat Nabi Mufa.
- 10. Hikaiat Nabi Yufuf.
- Hikaiat deripada kajadiaŭn Mir Mahummed.
- 12. Hukam Islam.
- 13. Húkam Khaj.
- 14: Hůkam Kanůn.
- 15. Elmu Fikeh.
- 16. Elmu Falak.
- 17. Kitabu'l Faraid.
- 18. Kitab ul Allah.
- 19. Sjihu'l Huseinu'l Kashesi.
- 20. Samar adayinu'l Islam.
- 21. Mirat al Muminin.
- 22. Marifat ul Islam, or Punganal agama Islam.
- 23. Permata marifat Allah.
- 24. Reazu'l lehafi.
- 25. Ruein parungan.
- 26. Nur Mahummed.

- 27. Cheritra deripada Suliman.
- 28. Cheritra deripada al Omar.
- 29. Cheritra Raja Dewa Ahmud.
- 30. Cheritra Kobat Leila Indara.
- 3r. Humfah penchuri.
- 32. Hikajat fegala Sufuhunan.
- 33. Hikaiat Mila Tumon panji Wila Kaluma.
- 34. Hikaiat Mifa Gomitar
- 35. Hikaiat Jaran Kolina.
- 26. Hikaiat Chahaju Langarei.
- 37. Silfilitu'l Salátin, or, Penúrunan fegála Raja.
- 38. Hikaiat Ambon.
- 20. Hikaiat Achi.
- 40. Hikaiat Bayan.
- 41. Hikaiat Baktiyan.
- 42. Mikaiat Tana Hitum.
- 43. Hikaiat Jowhar Manikam.
- 44. Hikaiat Datu perjanga.
- 45. Hikaiat Dewa Raja.
- 46. Hikaiat Raja Bolman dan Lokman.
- 47. Hikaint Raja Tambik baja.
- 48. Hikaiat Raja Suliman.
- 49. Hikaiat Rajah ul Ajam o Azbah.
- 50. Hikaiat Ruja Kirripun.
- 51. Hikaiat Raja Kambayu.
- 52. Hikaiat Raja Nila Datu Kawaja.
- 53. Hikaiat Runga Rari.
- 54. Hikaiat Ifma Jatim.
 - 55. Hikaiat Abdullah ibn ul Omar.

In addition to the lift of Barma compositions, the following names of twelve popular works may be mentioned:

T.	Wi bădo,	5.	Nyawa,	9.	Namofara Lénga,
2.	Wi béng,	6,	Séng-gyó,	10.	Yadana fui-gyaing,
3.	Padi muk,	7.	Wi-miy,		Tong-úchó,
4.	Néwa,	8.	Siho namakara,	12.	Yédana Rasi.

The following additional notices and corrections of names refer to the lift of Barma compositions given under the article BARMA, according to the respective numbers.

- 1. Jainda Mana Bikbu, an account of the female ascetic JAINDA MANA.
- 2. Nunda Jaina, the history of a Deva, also named ANUNDA.
- 6. Temi, the religious institutes of TEMI.
- 7. Némi, Another of the ten great religious books of the Budd'hists, which are recited in the following order: 1. Témi. 2. Némi. 3. Janaka. 4. Sawan Nasyan. 5. B'huridat. 6. Maho. sot'ha. 7. Samata. 8. Wit'hora. 9. Chanda Gungma. 10. Wesundara. Besides these, the two following works are of great authority. The Parêik-gyi, which is the Barma Hatamnan.

Pat'bam, which is the book of their mythology, revealed by MYA CHEWA-PARA.

- 8. Dberma pat'ba, a book on Justice.
- 9. Namagara, a ritual of prayers.
- .10. Logasara and Loganithi, Moral Treatifes.
- 14. Paramikhan, account of Samata and T'hik D'hat.
- 16. Bangkhan, the adventures of NEMI.
- 17. Kade-khan, a religious work on the expiation of crimes.
- 26. To-twek-khan, the same work as the Rukheng Nga-chang brang.
- 28. Anusasana, a small book for children, like the Tamul Atisúdi and other compositions of Avyár.
- 30. Attagat-Linga, the Bidagat.
- 36. Hmat-chew-Bong, A System of morality.

A 4

An Account of the Trigonometrical Operations in crossing the
Peninsula of India and connecting Fort St. George
with Mangalore.

BY CAPT. WILLIAM LAMBTON.

Communicated by THE HONORABLE WILLIAM PETRIE, Esq. Governor of FORT ST. GEORGE.

GENERAL ACCOUNT.

IN the year 1801 I had the honor of communicating to the Afiatick Society my intention of extending a geographical furvey across the peninfula of India, with a view to afcertain certain politions on the Coromandel and Malabar coasts, and to fix the latitudes and longitudes of all the principal places, in the interior country, within the extent of the operations for connecting the two feas. My labours commenced in the Carnatic, in 1803, in measuring a small arc on the meridian and on its perpendicular, an account of which has been published in the 8th Vol. of the Afiatick Refearches. The triangles, from which those arcs were deduced, constitute a part of the general furvey under my superintendence, now extended from sea to sea, taking in upwards of two degrees of latitude. A series of principal triangles has also been carried down in a meridional direction, from which has been deduced an arc of three degrees and upwards in amplitude, giving the length of the degree, on the meridian, in lat. 11° 59' 55", equal 60494 fathoms, and that from a great number of observations of different fixed stars. As I expect that the deplace, it will be sufficient barely to mention it here, as being the scale from which the latitudes of places are computed.(a)

A FULL account of this furvey being intended for a separate publication at some future period, when more materials will be collected, I have chosen for the subject of the present paper, that part of it which I think will be the most interesting; viz. the triangular operations in connecting the two seas, and the method by which the difference of longitude has been determined in my progress from east to west; and that it may be better adapted to the general reader, who, perhaps, may have neither time nor inclination to enter into minute detail, I shall previously state, in a concise form, the manner in which these extensive operations have been carried over the great mountains, forming the eastern and western ghauts, and through the whole extent from Fort St. George to Man-

of the stations of observation, occasioned no doubt by the plumb-line's being drawn out of its vertical position; but it is impossible to say at which of the stations this has happened, as at the three where the zenith distances were deemed the most unexceptionable, there is nothing, to appearance, which can be considered competent to produce the effect in question. One of these three is in the ceded districts, in latitude 14° and upwards. Another one is on the table land, near Bangalore, in Eat. 13°, and the most southerly one is in the Coimbetour country, in Lat. 11°. The arc, comprised between the stations in 11° and 13°, gives the measure of the degree 60530 stations; and that, comprehended between 11° and 14°, gives only 60461 fathoms; so that there evidently has existed some cause, for deflecting the plumb-line, at one or both of these northern stations. I have, for the present, taken the mean result of the two cases, reducing them to the same latitude, 11° 59° 55", which is 60494 stathoms. This measure, used with all the recent measurements made in England, France, and at the polar circle, will give the mean ellipticity of the earth 11 nearly, and therefore the polar, to the equatorial diameter, will be in the ratio of 1 to 1.003125 nearly.

galore, being a distance of three hundred and fixty two miles and upwards, on the parallel of the mean latitude between these two places.

In the triangles of 1803, a great distance was determined between Carangooly and Carnatighur, at which stations pole-star observations were made for determining the difference of longitude of those two places, and it was then thought probable that others might be found in succession, nearly west from Carnatighur, so as to afford great distances for connecting the meridian lines; but it was afterwards discovered that Kylasghur was preferable, and it was accordingly chosen for continuing those distances to the westward, that between Carangooly and Carnatighur, as already determined in 1803, remaining the first.

KYLASGHUR was laid downfrom the fide Carnatighur and Hanandamulla, being given in the 39th triangle, and the fide Hanandamulla and Poonauk of the 21st triangle, was the base for finding the distance of Poonauk from Pilloor hill. From this last, and from the fide Kylasghur and Hanandamulla, each as a base, the fide Kylasghur and Pilloor hill has been obtained as a mean of the two results. From this, as a base, the series has been carried on to Yerracondah and Kylasghur, depending on the measured line near St. Thomas's Mount; the particulars of which have already been given in the 8th Vol. of the Researches.

THE base near Bangalore (an account of which is given in Art. 2) is then had recourse to, for bringing out the same distance, and it will appear, in the arrangement of the triangles depending on that base, that all the errors are intended to be combined in the distance between Rymandroog and Yerracondah. From that the triangles are carried eastward, and the side

Yerracondah and Kylasghur again brought out, differing from the former two feet, which will show, by proportioning the said side to the length of the new base, that had the triangles been carried on, and that base computed therefrom, it would have differed from the measurement 3.70 inches. The distance, therefore, between Kylasghur and Yerracondah, is the second great distance for connecting the meridian lines.

THE third of these distances is that between Yerracondah and Savendroog, which is had from the base Savendroog and Nundydroog to the northward, and Savendroog Deorabetta to the southward, differing 11 feet, the mean of which is made use of.

THE same two sides are used as bases to proceed to the westward: the stations to the northward are Devaroydroog, Bomanelly, and Mullapunnabetta; those to the southward are Bundhullydroog, Mysoor hill, and . Mullapunnabetta; and, from the mean of these, (the difference being 5 seet) the sourch great distance is had between Savendroog and Mullapunnabetta.

Finding the three stations, comprehending the two last distances, fall very favorably with respect to each other, the positions of their meridians have been fixed, with more than ordinary care, in moving to the westward. But, as this will be more particularly treated of in giving an account of the perpendicular arcs deduced therefrom, I shall proceed to state the manner in which the triangles have been continued across the great mountains that form the western ghauts.

AFTER the observations were completed at Mullapunnabetta in Nov. 1804, the western monsoon being then over, and the favorable season

on the Malabar coast approaching, it became necessary that some previous knowledge of the country should be had, as I found that my intended direction would take me across the Bullum district, which is a part of the ghauts forming a curve convex to the eastward, and, in confequence, is at too great a distance to discover any object on the sea coast; for I had all along entertained a hope of finding two or three stations, on the tops of these high mountains, from which to intersect the flag staves at Cannanore, Tellicherry, and Mangalore. For the purpose of selecting stations I had detached Lieut. KATER, one of my assistants, who, after encountering many difficulties, succeeded in the choice of two, one on the top of Balroyndroog, in the Bednore province, and the other on Koondhully, a mountain in the Koorg. The distance between them has been derived from the base, Mullapunnabetta and Daesauneegooda; as is also the fifth great distance connecting the meridians of Mullapunnabetta and Balroyndroog. These stations, however, being too remote from the fea, I decided on defcending the ghauts, and on the distance between them as a base, a series of triangles was carried through to Mangalore, and thence down the coast to Mount Delli and Cannanore.

It will no doubt be noticed, that the great extent from Bangalore to the fea-coast required that another base should have been measured to verify the truth of the triangular operations, and it was my intention that it should have been done, but circumstances and various avocations prevented it, till the season became so far advanced that every other object would have been lost. I had to fix the meridian at Balroyndroog, and to observe zenith distances at Paughur, the intended northern extremity of my meridian arc; and, by the time I arrived at the latter

place, it was the end of April, and very shortly after that the monsoon fet in. I had, however, laid the foundation for a fouthern feries of triangles, to be carried through the Koorg to Mount Delli, which was rendered practicable by the affiftance afforded me by the Koorg Rajah, to whose liberal aid I am indebted for the successful means I had in carrying the triangles over these stupendous mountains. Several beacons had been erected on commanding fituations pointed out by me, previous to my descending the ghauts, some of which were distinctly feen from every part of the coast, and one of them (Taddiandamole) being vifited as a flation, the feafon following, I was enabled, thereby, to intersect the flag slaves at Cannanore and Tellicherry, and also a fignal flag on my former station on Mount Delli. This branch of triangles was carried on in the beginning of 1806, and commenced from Mullapunnabetta and Mysoor hill, and thence to Bettatipoor, Soobramanee hill, Taddiandamole, Kunduddakamully, Mount Delli, and Backul. From the distance between Taddiandamole and Mount Delli, Cannanore and Tellicherry have been laid down; and upon the distance between Baekul and Kunduddakamully, a branch of triangles has been carried up for finding the distance from Bullamully to Kunnoor hill, which was also determined by the northern feries, and there is a difference of 37 feet. I have been more particular in giving an account of this fouthern feries, because the object was to do away any doubt that might exist, as to the accuracy of the northern one, from the want of a base on the Malabar coast; and I think, so far as regards nautical purposes, no error, of any importance, can exist, It will, however, be necessary that a base line be measured near Mangalore, from which all these distances, near the sea,

should be derived anew, when a more minute survey of the coast is made.

As the fituation of the places on the Malabar coast, and their relative positions, with respect to the observatory at Madras, and other places on the coast of Coromandel, constitute a most important part of this survey, I have left nothing undone, in that respect, to give full and entire satisfaction. But the great accuracy required, in these low latitudes, in afcertaining the length of a degree of longitude, has called forth more than ordinary attention; and I have reason to hope, from the many favorable and concurring circumstances, that my endeavours have been rewarded with fuccess. The three flations best situated for determining the length of an arc, perpendicular to the meridian, are Yerracondah, Savendroog, and Mullapunnabetta; their respective distances from each other being nearly sixty seven miles; and lying in a direction very nearly east and well, the spheriodical corrections for the angles are trifling. All the other great stations have therefore been used for connecting the meridian lines, their latitudes and longitudes being computed spherically by using the oblique arcs, as obtained on the elliptical hypothesis, the perpendicular degrees having been found equal to 60748 fathoms, and the meridional degree 60498 fathoms, in latitude 12° 55' 10", which is the latitude of Savendroog, as had by referring to the latitude of Dodagoontah, the great station of observation, (Art. 8) for fixing the point of departure.

The scale of 60748 fathoms, for the length of the degree perpendicular to the meridian, in lat. 12° 55' 10", is considerably different from what was formerly obtained from the observations made at Carangooly and Carnatighur, and reduced to the same latitude; but this is not to be wondered at, considering under what great disadvantages they were made, and the extreme accuracy required in making them: and it may be further remarked, that Carnatighur is by no means an eligible station, on account of the great mass of mountains on the west, and the low sandy plain to the east, which comes to the foot of the mountain. Such an inequality of matter must doubtless produce a great lateral attraction, and sensibly affect the instrument. The station on Balroyndroog, on the top of the western ghauts, has been laid aside on a similar account.

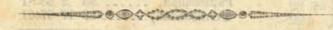
THE relative politions of Savendroog, Mullapunnabetta, and Yerracondah, having been fixed with great accuracy, the connection with the obfervatory at Madras is effected, by working back to Carangooly, by means of the oblique arcs, (Art. 15) and then using the northing and easting, and computing spherically, by converting the easting into an arc at right angles to the meridian of Carangooly, and passing through the observatory; and also using the co-latitude of the point of intersection of the faid arc and meridian. From this computation, the latitude of the stone perdestal in the centre of the observatory is had equal 13° 4' 8."7. The pofition of the flag-staff at Mangalore, is deduced from the meridian of Balroyndroog, by using the fouthing and westing, in a similar manner as at Carangooly, with respect to the observatory. It is thence found to be in lat. 12° 51' 38" N. and 34' 50" W. from the meridian of Balroyndroog. By fumming up the respective differences of longitude, we shall have 5° 25' 23" for the longitude of Mangalore west from the observatory; to which add 2' 22", the easting of the church steeple in Fort St. George, we

get 5° 27' 45" for the difference of longitude between the steeple in Fort St. George and the flag-staff at Mangalore.

THE meridians of Carangooly and Balroyndroog are also used for fixing the latitudes and longitudes of other places on the two coasts, as will be feen in the detailed account (Art.15); fo that by having the politions of a few places accurately laid, the general form of the peninfula may be determined, and a foundation laid for carrying on more minute surveys, both along the coasts and in the interior. I have given here the mode of computing the positions of the most remarkable places on the coasts, and of the great flations connecting the meridian lines. But from thefe different meridians, the latitudes and longitudes of other places are fixed by using the eastings and westings, and the northing and southing from the great flations, and computing spherically; so that the whole together amount to near fix bundred. I have subjoined to this paper an alphabetical list, which includes the most remarkable places within the extent of the furvey: and I have also added a table, giving the perpendicular height of all the great stations above the level of the sea, and the ultimate comparisons of the height of a station on the beach, near Mangalore, as had by computing from this coast, and by measuring from the low water mark on the other, where there appears an error only of 8 feet. This table also contains the terrestrial refractions.

It will be unnecessary to say more here; there being sufficient, by referring to the plan of the triangles, to convey a general idea, and the adjoining detail will surnish all the materials for a more critical examinanation of the subject. The work is now grown to a magnitude far ex-

ceeding what was first proposed, and will, I hope, be adopted, as a soundation for a more finished superstructure, in times to come. The task has been an interesting one, and by no means arduous. Freed from restriction of every kind, and permitted to act under the most liberal conditions, I have been enabled to obviate every difficulty; which otherwise must have embarrassed my exertions, and deseated the ultimate objects of my labours.



SECTION I.

Series of triangles taken up at Hanandamulla and Pilloor Hill, and carried to the base near Bangalore.

. I. ANGLES.

At Hanandamulla.

Between Kylasghur,	And Pilloor Hill, 98*	19' 34".6)	
	COLUMN DR : DELLOS DE LOS DELLOS DE LOS DELLOS DE LOS DELLOS DELL	31 .6 33".6 34 .5	

At Pilloor Hill.

Kylasghur, Hanandamulla, 42 59 9.25	
Kylasghur, Hanandamulla, 42 59 9.25 5.8 8.95	8
Bodeemulla, 50 96 20.75 21.4	01.02
21.4 5	21.07

At Kylasghur.

Referring flag, Patticondah,	53	2	34	33.81
An Yerracondah,	89	17	57.16	
. You so the 30 th the last			59.66	07.61

ACCOUNT OF TRICONOMETRICAL

At Yerracondah, continued.

Between Rymandroom	And Deorabetta, 82° 19′ 13″.5 }	Returned Y orthogonalsh, 121.
**	15.5 H. M. U. U. U	
Referring flag,	Savendroog, 94 16 15.	MAN TO THE REAL PROPERTY.
	16 .5 16 .5	
	designation of the 12.10	14.97
	15.75 In 12.75	Referring flag.
15.00	13.75	
	Ankissgherry, 143 13 21 . 23 .5	
Listing (20.	21.35
LEV SINE	23.75 J Rymandroog, 35 51 26.57	
The same of the sa	Tirtapully Hill, 73 22 45 .90 Tirtapully Hill, 87 31 19 .33	
Rymandroog, -		
	Patticondah, 42 34 23 .51 Kylasghur, 84 57 12 .48	
Patticondah,	18. 16. 69 87 Kylasghur, 100 110 1 142 22 48 .97	Hymunicong
Referring flag,	Tirtapully, 73 22 45 .90 Ankissgherry, 143 13 21 .35	
	(i) . 00	between flam
Tirtapully,		16.0
Rymandroog, -	Deorabetta, 82 19 15 .21 Tirtapully Hill, 37 31 19 .33	
Deorabetta,	Tirtapully Hill, 44 47 55 .88	
Referring flag,	Rymandroog, S5 51 26 .57 Savendroog, 94 16 14 .97	
Rymandroog,	Deorabetta, 82 19 15 .21	
Savendroog,	Deorabetta, 23 54 26 .81	
Referring flag,	Pole-star's W. clongation, 9 3 6.5	and income
均制	3 .5 3 .5	

At Yerracondah, continued.

Between Referring flag,	And Pole-star's W. elongation, 9° 3′ 5″.5	
Dalywood at Con	3.75	
3,79	Secretarian \$ Savendroog 46 42 55	
	40. 81 16 70	
	At Rymandroog.	
Between	And	
	Patticondah, 45, 11' 52".15 } 51".7	
	Tritapully Hill, 49 22 56 .85	
	67. 21 22 6d Serre Hill gliannil Trans. 65. 25 54.58 moment	Ď.
Thranging heb	Nundydroog, 121 27 28 5	Ľ,
	67. 84 62. 78. 38 17	a.
£8,82 .	98 9	
Yerracondah,	30 .95 30 .95 30 .95 30 .95 Solution of the second of	
Platinal III	un de ca de la la la destaction de la	2
Tircapuny Ithi,	Nundydroog, 72 4 35 .47	
	28. 10 86 04 Postfivorared D. 20 20 20 20 20 20 20 20 20 20 20 20 20	3
63.48	At Tirtapully Hill.	
Nundydroog,	Rymandroog, 51 31 46 .657	
	44.25 44.5 \ 44.03	
	27.75 A Bonnairgottah.	
Rymandroog,		30
	29. 20 7 16 Hill yllugari 1 50 51.3 magalants	
28.55	0. EG 49.75 50	
Deorabella,	75. 18.75 Verracondah, 97 51 18.75	6
Yerracondah,	Ankiescharer 20 16 0 0 3	
Nundydroog	Romairouttah 05 82 49 Chan I more inch	R
Muntapum Static	m,	3
The state of the s	17.27	
Atuntapum Centr	e,	

At Tirtapully Hill, continued.

Between	And	growthilk
Savendroog,	Allasoor Hill, 36° 33' 33".02	30'.97
The second secon	27 .75 Savendroog, 46 42 26 .25	1 (EE) 1999
Deorabetta,	22 .75	24.5
Deorabetta,	Yerracondah, 97 51 18 .04	
Ankissgherry,	Yerracondah, 38 16 9.25	
Authorities.	Deorabetta,	
Ankissguerry,	Deorabetta, Caracter State Of Stra	
	tak	months
- 12 (W. W.	Patrocardada	- Friedrich medit
	At Nundydroog.	
ALL TOP IN		
Rymandroog,	Tirtapully Hill, 56 23 42 .75	
The second second	43.75 42.75	
	• 46 .75)
Savendroog,	Tirtapully Hill, 71 26 37 .25	
	38 . 40 .75	> 38.55
	58.5	The Company of the Co
William Court Bound	38 .25	
Savendroog,	Yerracondah, 89 55 29 .25	
Continued and Mr. o.	28.5	\$ 29.02
data and state of	30 .34	
Savendroog,	Devaroydroog, 49 53 51 .42	
	52 .92 54 .17	53.48
	55.42)
(10.8)	TE to (goodnamy) 1 31	and agriculture to a second
2000年		
67.9	At Bonnairgottah.	
S. end of the Base,	Muntapum Station, . 38 46 30 .09	31.15
Mustamum Station	Tirtanully U.II 51 7 59 93) .
Muntapum Station,	Tirtapully Hill, 51 7 53 .25 53 .6	\$ 54.62
1 0	57	1
Tirtapully Hill,	Muntapum Centre, . 51 5 56 .65	Jan- Granman
	56 .55 59 .55	> 00.81
20.0 \$ 0.0	DI 22 / LINE MINISTER 54 .9-	- China managa
Muntapum Centre,	Savendroog, 70 52 25 .06	23.91 TO FORM
Savendroog,	22:77 Allasoor Hill, 75 50 27 .25	5
Cavendroog,	28 .5	The state of the s
100	98	
20.8	Jonesiero(tab)	Samuel annual manage

At Bonnairgottah, continued.

Between Dodagooutah Station	And Savendroog, 83° 20′ 14″.75)	
2 Stang Stanton, 22222	17.5 } 16	".17
Savendroog,	- Tirtapully Hill, 121 58 22 .76 2 99	
	21.59 \$ 22.	.17
47	16	
At the	: Muntapum Centre.	
Bonnairgottah,	- Tirtapully Hill, 97 28 55 .75	
	EA OF #	.27
	55.5	
m: c n ven	Savendroog, 69 50 45 .25 46	.5
Tirtapully Hill,	- Savendroog, 167 19 40 .52)	.77
	43.02 5	
At the	Muntapum Station.	
N. end of the Base,		
	41.4 5 41.	42
S. end of the Base,	Bonnairgottab, S5 3 56 .05	
	54.75	22
	54 .25 \ 57 .75	.05
Bonnairgottah,		
	- Turapully Hill, 97 26 51 .53 55.	39

At the S. End of the Base.

N. end of the Base,		60.06
	Dodagoontah Station, 17 38 47 .85 45 .6	47.51
Muntapum Station,	Bonnairgottah, 106 9 36 .25	30000
	39.76 36.5 38.38	37.72

At the N. End of the Base.

Between S. end of the Base,	And Muntapum Station, 89° 19′ 21″.5 19 .75 20° .75
A Library Co.	Dodagoontah Station, 67 41 24 .5 20 .75
	20 .75 21 .25 25 .5

At Deorabetta.

Savendroog,	Tirtapully Hill,	79	40	54	
	A A SHALL BOND TO SHALL BE SHA		4	53	59.9
				52.75 52.75	die
Bonnairgottah,	Ankissgherry,	98	54	18 21.5	20
	P to Hil	90		20.5	
Savendroog,	Bonnairgottau,		50	00 .20	37.17
Savendroog,	Bonnairgottah,	52	56	37 .17	
Davendroog,	Tirtapully Hill,	79	40	52.9	
Bonnairgottah,	Tirtapully Hill,	46	44	15 .78	
	Ankissgherry,	-	-	-	-SARWOOD
Tirtapully Hill,	Ankissgherry,	52	10	04 .27	
	-000-				

II. MEASUREMENT of the Base Line near Bangalore.

This base was executed by Lieut, Warren, of H. M. 33d Regt. then one of my assistants; and was intended as a datum for extending the triangles to the Malabar coast; and also as a base of verification to the triangular measurement brought from the base near Madras; and it appeared that, by continuing the computations the whole distance, and making this base one of the sides of the last triangle, the computation exceeded the measurement only 3% inches.

No further account need therefore be given of the manner of performing this very important and delicate part of the work, than, that in addition to the apparatus used in the former measurement near St. Thomas's Mount, there was a transit telescope, in all respects similar to that mentioned in the account of the trigonometrical survey of England for fixing objects in the alignement, and taking the elevations and depressions at the same time. The manner of using it was as follows.

When the instrument was placed at a sufficient distance behind the commencement of an hypothenuse, so as to see distinctly the mark placed on the head of the drawing post, and the elevation or depression of the hypothenuse finally determined, the instrument, being covered from the sun by a small cloth pandal, remained in that position, till sour, or sometimes sive chains were measured. Previous to removing it, a small hooped picket was placed, by signal from the person at the transit, at a proper distance behind the termination of the last chain. In fixing the spot for this little picket, a common rod, with a sharp point, was used, and the telescope of the transit depressed to the place on the ground intended to be marked. After the spot was fixed on, and the picket driven down, the instrument was removed, and placed in the alignement, with the plummet hanging over the centre of the little picket, and then a new hypothenuse was laid out, or the former one continued.

WHEN the hypothenuse was terminated, a register picket was driven into the ground, opposite to the arrow of the chain, and in such a manner, that when the brass head was fixed thereon, the slide might be parallel to the chain, and very near it. A piece of wood was contrived to beplaced upon the brass head, and fixed by a screw, which pressed against

the end of the flider, so that when that slider was moved by its own fcrew, the wood, thus attached, moved with it, in the direction of the alignement, as nearly as the eye could judge. On the top of this wood was placed a T, having also a motion in the same direction with the brass slider, to expedite the operation; and on the top of this T, a brass ruler, in length about six inches, was placed, having a sliding motion at right angles to the other; and in the middle of the projecting end, was a mark from which the plummet was suspended, and by the two motions, at right angles to each other, the plumb line was easily brought to coincide with the arrow terminating the hypothenuse. A like operation was gone through with the commencement of the next hypothenuse, and the arrow brought to coincide with the same plumb line. Here the distance of each arrow above or below the brass rule was noticed as in the former measurement.

If, after the removal of the transit, the same hypothenuse was continued, the register picket, at the end of the chain, was left standing; and when the instrument was brought into the alignement with the plummet over the mark, nothing was required but to place the telescope at the former elevation or depression, and move the cross vane which is applied to the heads of the pickets and stands, till the appropriate mark coincided with the horizontal wire in the focus of the eye glass.

Experiments, made for comparing the Chains, previous to the Measurement.

Month.		The	rmom	eters.	and a	Mean of 5 Ther- nometers.	Comparisons.	C MA
1804.	1	2	3	4	5	M 5	一种,这种种种的,这种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种	1
May 28. A. M.	78 78 74 74 74 74 75 75 77	73 74 74 74 74.5 75 76 77 79	72 73 74 74 74 74 75 76 78	79 79 73 73 73 74 74 74 75 76	78 74 74 78 78 74 75 75 76	72.6 73.2 73.8 73.6 73.6 74.2 75.0 75.6 77.2	cont a s a c .	17.5 16.00 15.75 16.00 15.5 14.75 14.75 14.75 14.00
To s			41724	7	Mean	74.3	Mean	

Greenments, made for comparing the Chains, after the conclusion of the Measurement.

Month.					Mean of 5 Ther- mometers.	Comparisons.
1804.	1 2	3	4	5	M. 5	
July 12. 78 A. M. 86 8 88 8 88 8 88 8 88	0 80 1 80 79 1 80 1 81 1.5 81.5 2 81 2 81	79 80 80 80 79,5	78 80 77 80 80 81 81 81.5 82 82	80 80 80 78 79 80.5 82 81.5 82 81	81.2	### Divisions The old chain exceeded the new one by 18.9. 18.00 17.5 18.00 18.9. 18.9. 18.9. 17.5 17.9. 18.9.

Table, containing the Particulars of the Measurement.

			THE PROPERTY.		CONTRACT OF STREET	H1 938600	5000 · ·			
1	1	4		1		STATE OF THE STATE	Comme	ence-	9	
No. of the Hy-		each	Angles of	Deductions from each Hy- pothenuse.	Perpend	ienlar.	ment		Mean of 5 Thermometers	
-	pothenuse.		Zingies of	Deductions om each H pothenuse.	1 cipena	Circus.			Hean of 5 ermometer	THE RESERVE TO SERVE THE PARTY OF THE PARTY
'n	22	Length of in feet.	ALCOHOLD TO	ra cl		- 20 PM	the l	ase.	2 6	DEMIDE
-	5	200		te ea	-				100	REMARKS.
0	5	PO 22	1	e la	The state of the	U.S. III	Above	below	2 2	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL
	21	F -	E & D =	500	Ascents. 1	Danconte	inches	inches	100	ME INCHES
2	-7	3	EUD	-	Ziscemes. L	PESCEIILS	erecutos:	erec res	H	
33	- 1	100	100000000000000000000000000000000000000	Cont 1	C-1	Cont	- Street by		1	REPORT OF THE PARTY OF THE PART
		1	- 10,010	feet	feet	feet	00 0		104 0	Commenced the Ooth Man
	1	600	0° 16' 01"	.00648	1000	2.7954		150	34.0	Commenced the 26th May
	2	600	0 2 17	.00012	0,3985		3. 6	August 1	86.5	1804.
	3	400	The second second	.00892		2.6684	No. of Lot	5. 9	84.9	
		900	0 53 31.5	.03636		4.6707	BOTH IN		82.1	
	4		0 33 31.3	.00000				0 5	99 4	THE TANK THE PARTY OF THE PARTY
	5	400	1 13 15	.09080	Selv Park	8.5224		3. 5	83.4	An order market trans-
	6	300	0 16 43.5	.00354	1000	1.4595	10		96.6	THE RESERVE OF THE PARTY OF THE
	7	900	0 13 16.5	.00675	Contract Contract	3.4754	THE LOCAL PROPERTY OF THE PARTY	6. 5	81.9	DESCRIPTION OF THE PROPERTY OF
	8			.05208		9.1337			81.8	THE RESIDENCE OF THE PARTY OF T
	0	900						4. 4		
	9			.07188		6.5663				And the second second
-	10		0 0 47 28.3			4.1428		3. 4	188.5	A COUNTY OF THE PARTY OF THE PA
	11	800	0 0 57 15	.11096	2	13.3220		6. 9	82	
	.12			.05151		5.5585		6. 4	86.7	NAME OF THE PARTY
	13	200		.01990	1000	2.8215			74	
						2.0210		10.	83.4	
	14					100000	the same of		00.4	The state of the s
490	15		00 29 1.15			5.0658			9 88.1	
	16	70	0 1 2 30	1.11564		12.7257	The comme	15.	82.7	The same of the sa
	17		0 1 26 34.			15.1086			99.8	
	18		THE RESERVE AND ADDRESS OF THE PARTY OF THE			17 4746		15	95.8	The second secon
4			0 1 25 49.			17.4740			79.7	
	18		0 0 45 35	.01758		2.6518				
	20	50	0 0 26 10	.01450		3.8057	1000	25.	2 84.4	
	2		0 0 24 52.	00522	1.4471	100000	4. 7		190.9	AND DE VIENE DE LA CONTRACTOR DE LA CONT
	22		0 1 10 41	.04228		4.1119			79.1	The state of the s
	00			.04220		4.1113	0. 1		. 77.2	THE RESERVE THE PERSON NAMED IN
	23		0 Level				3. 5			
70	2		0 0 10 40.			1,863	146		82.9	
	2	110	0 0 58 21	.15840	18.6697		15	Unch.	80.5	THE RESIDENCE OF THE PARTY OF
	2		0 0 57 57	.0568			NO. C	6.9	87.8	
	2		0 0 46 20	.0454		THE SECOND	92.		79.9	
									79.7	
	2	0 11	00 0 16 1.				2. 9		80.7	
	2	9 50	00 0 22 1.			3.203	3	5		
	S	0 40	00 1 24 00	.1194		9.772		10	80.9	
	3		00 1 42 43.			14.938		4	77.	
	9		00 Level		-		- 4.		. 77.	
		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0	0.000			83.6	5
			00 0 5 41	.0007	the same of the same of	0.826			85.	9
	-	14 80	00 0 25 33	.0220	8 5.9457		7.		1 75	G .
	2	10 CC	00 0 12 1.	5 .0061	0 3.4979			10.	4 75.	
	2	36 7	00 0 37 39	.0420	0 7.6669		8.7	5	86.	1
		ACCOUNT OF A PARTY	00 0 52 16				9	100	81.	1
		many E				6	16.	1	78.	2
		Charles Committee	00 0 53 49				10.	01	25 81.	4
			00 0 40 44		4 14.2183	2	1 100		74	
			00 Level				- 4.	9	74.	
		41 2	00 0 52 17		2 3.0416	3	1		87.	1
		and the second	001 14 41					13.	3 80	
		A control			55 18.180	1	16	1	83.	31
			000 1 20 55	5 000			10	0	9 89.	
					COLUMN TO SERVICE STATE OF THE		12		09.	6
		45 5	200 0 48 49	.020	08 2,833	1	7.	0	93.	01

Table, containing the Particulars of the Measurement, continued.

-	ME					2.45	4		
No. of the Hy-	ch	Lan San San	10 5	1	TO STREET	Conn	nence-	HERE	
E.	each	Angles of	E Ha	Perne	ndicular.		from	in t	
22.5	e.f.	9	tion h	The state of the s	AL PETO		tast.	100	COLUMN TO THE PARTY OF THE PART
en en	feet feet		Deductions rom each H. pothenuse.			· · · · ·	EGGE .		
100	engti	William Co.	ed ed		7 - 22	12	12 F	fean	REMARKS.
o.	1000	E" & D"	De		Priliann.		ethelou	The same	
2	7	E d. D	2	Ascents	. Descents	inche.	sinche	17.1	the meteory account and
	1		feet	feet	feet	Territoria	SACTOR DE	ALC: U	of Control of the Control
46	300	0 9 27"	_00114	reet		The same	0.00	21.	HANGE WESCHENING
47	200			-	0.8247	1000	6.73		
	100000000000000000000000000000000000000				4.1172	7	8.5	81	The state of the s
48	A 100 CO	2 00 15	-30587	Dr. M	17.4860	學女 与	8.8	88.0	
49	400	THE RESERVE OF THE PARTY OF THE	.03056		4.9450	15. 9	A Comment	89.8	
50			100177	PED.O	1.0283	111. 9	no an	82,	
51	200		.00230			. 13. 9	1000	80.8	
52	300		.20940	11.2067	DE 100	11. 7	7.010	89.1	
53	500	1 13 31.5	.11437	10,6929	120	La de	10. 4	90.8	
54	400	0 51 43.5	.05428	6.0182		distribus.	5.	74	tol regald of flow
55	200		.00896		1.8922		17.	88.9	
56	400		.16300	100	11.4178	tib h	8. 3		H con the apparent
57	300		.30087		13.4523	0 0	0. 0	91.2	
58	200		.02504	1757E D		0, 3	- cirl	82.2	A CAN PROPERTY OF STREET
59	200	The same of the sa	.00868	1 004	3.1647	5. 5			The second secon
60	600			1.8645	630.0 303	23. 8	TENIOR I	71.8	
			.35490	20.6344	-	12. 8	-	84.7	
61	600		.31514	19,4439	ETTE U.S	ECTIVE !	8. 6		
62	700		.22134	17.6012			4. 5	91.9	
65	200	38 16.5	.03100	5.5667	-		14	89.8	
64	800		.00128	(ATT)	1.4505	10 75	9. 2	79.6	HEREX AREST ETES
65	400		.01276	- Chenne	3.1939	7. 5	1	87.8	
66	500	13 4.5	.11300	or the l	10.6275	101	6. 9	73	Wine Sha correcte
67	400 1		.17630		11.8752	ST. DOLLAR	12	86.7	
68	500 9	26 30	.45395	5 7	21.3011	8. 6		79.5	THE CAN BE STATE OF THE STATE O
69	200 0		-00/167	edi the		13	S DEPT	71.7	
70	200 0		.01113		U.0114		CONTRA	79.1	Pont blip daide of
71	300 2		The same of the late of the la	2.1103	of the last	3. 8	1.56		to the same of the
		16 36 47 22		11.9174	in the mil	25	217 230	94.9	Contract Appropriate
			,09752	6.2453		. × .	2. 3	84.3	
73	000	11 43.5	.18208	8.3450	Wes - 2 3	21. 2	-W.	72.4	1000
	900 0			10.7815		4. 9		87.6	
	300 0	\$117-15 CARESON	.0157.3	2112	3.0732	Land	11	76.8	CALCULATION OF THE PARTY OF THE
	200 1		.03222	Section 15	3.5903	0. 5	SELL C	70.8	Which being reduc
	3000	6 21	.00053	0.5585		2.75		77.6	MACONIA CONTRACTOR
	200 2	23 45	.17483	8.5606		- 555.00	7. 5		
79	400 1	3 28.5	.06820	7.3852		26. 5		87.8	
80	800 0	32 13	.03512	1.0002		20. 3		80.2	a survey and to have the
81	700 0	22 59	.01568	4 6700	7.4971	14 00	0.0, 1	70.7	
82	0000	47 22	.05697	4.6799	S. S	14.37		74.6	
83	400 0	59 35		8.2668		11			
	400 1		.06008	6.9325	1	11.55		83	
		3 20	.06788	7.5687		7. 1		79	The state of the s
85		10 00	.00126	0.8727			3. 6	76.7	Completed 11th July.
	De	scent from	the term	ination o	f the >				
10		base to th	he ground	1	£		34		
. 90	1008	C	CHICELOC	T TOOM			200	1	

39800] 6.63475[307,7304]278,4189[514,32]389,2[83,1

North above the South extremity of the base = 39.74 feet.

At the commencement the old chain exceeded the new	THE THE PARTY
one 15.47 divisions of the micrometer = 0.00619	
feet. Therefore 398 × 100.00619 feet will be the	Feet.
measure in terms of the new chain,	39802.4636
At the conclusion the old chain exceeded the new one	40 2 3 313
17.9 divisions, and had therefore increased 2.43 divi-	
sions = 0.00097 feet. Hence 398 $\times \frac{0.000007}{1} = 0.1930$	an one the
feet, is the correction for the wear, which add,	- + 0.1930
The sum of the deductions from col. 4th is 6.63475 feet,	
which being increased in the ratio of 100 to 100.00619	
will be 6.6351 feet, which subtract,	6.6351
	39796.0215
Hence the apparent horizontal distance will be	33130.0223
The correction for the expansion and reduced	14 12 9 not lin
to the standard temperature of 62° will be	
$(83^{\circ}.1-50^{\circ})\times 0.0074-(62^{\circ}-50^{\circ})\times 0.01237\times 39796.$	The state of
0215 feet, which add,	- + 3.1996
	100000
Hence the corrected measure of the base for the tempe-	(if g) logs in
rature of 62° will be	39799.2211
To which add the correction for reducing all the hypo-	- A 10 10 10 17
thenuses to the level of the S. end of the base,	- +0:0893
The state of the s	39799.3104
The shall of the east will be	39793.7
Which being reduced to the level of the sea will be -	39 193.1
The state of the s	

SERVICE OF CAUTE ON THE SERVICE OF CHAPTER OF

III. TRIANGLES.

	Hanana	lamulla from	Pille	oor .	Hill 1	10381.9	
No	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
45	Hanandamulla, Pilloor Hill, Kylasghur,	42 59 08	-0 7	100		98° 13′ 31″.5 42 59 7 38 47 21 .5	al-alpha
10	Emports misse	180 00 04		3".1	+0".9	180 00 00	
		Kylasghur fron	1 2				THE REST
L	Hanana	lamulla fron					111001.0
	Hanandamulla, Kylasghur, Pilloor Hill,	38 47 22.4	-1.8 -0.6 -0.7	15 15 15 15 15 15 15 15 15 15 15 15 15 1		98 13 31.5 38 47 21.5 42 59 7	the best
46	The balls and the	180 00 04		3.1	+0.9	180 00 00	
	P	illoor Hill from	3		milent		110375.6 174377.3
	Kylasg	hur from Pi	lloor 1	Hill	1743	82.3	
	Pilloor Hill,		-3.7 -2.14		Land K. Told K. Told	86 12 24.25 50 13 24.25 43 34 11.5	Kalasah Pakkon Yesano
	Amodinates	Lan State			0 001	180 00 00	0
	Pi	atticondah from		Saulo.	Allen E		194447.4

ACCOUNT OF TRIGONOMETRICAL

TRIANGLES-CONTINUED.

	Kylasį	ghur from P	Pilloor	Hill	1749	82.3	1 4.1
No.	TRIANGLES.	. 4		Spherical Excess.		Angles for Calculation.	Distance in feet.
10	Kylasghur, Pilloor Hill, Bodeemulla,	35° 25′ 37″,05 50 36 21.07 93 58 6.45	_0 .7 _1 .7			55° 25° 35° 5 50° 56° 20,5 93° 58° 4	ALL SELLY
48	60 00 08s	Bodeemulla fro	Kyl	asghu	ır,	180 00 00	1 2 2 2
	Kyla	sghur from	Bodeen	nulla	1350	85.8	
	Kylasghur,	50 46 50.91 85 23 40.3 43 49 86.2	2.2	に収象	803 BC	50 46 48.75 85 23 37.25 43 49 34	tarmati dipining i i madali
49		180 00 7.41		4.8	+2.61	180 00 00	1
		Patticondah fro	Sm {Kyl	leemu	lla,		The state of the s
1	Kylas	ghur from	Pattico	ndah	1944	47.5	4.1
	Kylasghur, Patticondah, Yerracondah,	. 101 21 48.77	-4.8	TE	21 77	36 15 25 101 21 45.75 42 22 49.25	100 mm
50	THE RESIDENCE OF THE PARTY OF T	180 00 2.34		7.7	-5.36	180 00 00	1
	0.585101		SK		hur,	 I	282822.5 170607.3

Triangles taken up at the Base, and continued back to Perracondah and Rylasghur.

	N. end of the	TATE OF TAXABLE PARTY.	he S. e.	nd of	the E	ase 39793.	7
No.	TRIANGLES.	M. SECOND	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distanc
51	N. end of the Base, S. end of the Base, Muntapum Station,	89° 19′ 20″.75 33 44 0 .06 56 56 41 .42	-0.06	02.3		89° 19' 20" 33' 43' 59.5 56' 56' 40.7	
0.10	on the same of	180 00 02 .23		0".24	+1".99	180 00 00	
	entl	Muntapdia Stati	on from	<		he Base,	I was
	S. end of th	e Base from	Munta	pum	Statio	n 47475.03	
1	S. End of the Base, Muntapum Station, Bonnairgottah,	106 9 87.72 - 35 3 56.05 - 38 46 31.15 -	-0 .08			106 9 35.9 35 8 54.5 38 46 29.6	100 B
52	0901	180 00 04.92		0.47	+4.45	180 00 00	
	100) 3 - 3 - unaco	Bonnairgottah f	rom <				43551.7 72811.7
	Muntapu	m Station fro	m Bon	nair	gottah	72811.7	MET VI
1	Muntapum Station, Bonnairgottah, Tirtapully Hill,	97 26 53.39 <u>-</u> 51 7 54.62 <u>-</u> 31 25 16.15 <u>-</u>	0 .57			97 26 53.9 51 7 54.2 31 25 11.9	ign is
	Ber die Manua i	80 00 4.16		1.85	-2.31	80 00 00	Thousand the
	- 1	'irtapully Hill f	rom 3			ALCOHOL: CO.	108746.8 158492.9

TRIANGLES __ CONTINUED.

	Bonnairg	rottah from I	W .		1	-	
No.	TRIANGLES.	Obsd. Angles.	Difference	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
	Bonnairgottah, Tirtapully Hill, Muntapum Centre,	51° 5′56″.91 31 25 8 .96 97 28 55 .27	-0.4	2 117	81	51° 5′ 56″.5 31° 25′ 9 97° 28′ 54′ .5	9 JU
54	500 AL AZ	180 00 01 .14		1'.9	-0'.76	180 00 00	
		untapum Centre um Centre fr				72815.6	108705.
	Muntapum Centre, Bonnairgottah, Savendroog Station,	69-50 46.5 70-52 23.91 39-16-50.88			and a	69 50 46 70 52 23.5 39 16 50.5	
		180 00 01.29		1.7	-0.41	180 00 00	need by
55		100 00 01140					

WITH the sides Muntapum centre from Tirtapully hill 108705.1 feet, and Muntapum centre from Savendroog = 108661.6 feet, and the included angle at Muntapum = 167° 19' 29".3 the side Savendroog from Tirtapully hill is found = 216038.9 feet.

Again with the sides Bonnairgottah from Tirtapully hill 138492.9 feet, and Bonnairgottah from Savendroog = 107968.7 feet, and the included angle at Bonnairgottah = 121° 58′ 19″ the side Savendroog from Tirtapully hill is found = 216038.8 feet, differing from the above $\frac{1}{10}$ of a foot, and of which the mean is 216038.85 feet.

TRIANGLES-CONTINUED.

	Savendro	og from Ti	rtapull	y Hill	216038.85	1
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Angles for Calculation.	Distance in feet.
56	Savendroog, Tirtapully Hill, Deorabetta,	55° 36′ 47″.5 46 42 24 .5 79 40 52 .9	-1 .9	1500 100	55° 36° 45° 5 46° 42° 22° 15 79° 40° 52° 0	Rymed
50	00.00.08010.1	180 00 04 .9	lika	6".6	7.7 180 00 00	89
281	800	Deorabetta from	1 3	endroog, a	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	159828.8 176775.8
	Savendroog, Tirtapully Hill, Nundydroog,	37 44 43.15 70 48 41.9 71 26 38.55	-1.9 -2.4 -2.4	13 20	37 44 41.25 70 48 42.5 71 26 36.25	
57	60 to 681	180 00 03.6		6.7 —3.	1 180 00 00	0
	y'm,	lundydroog fro	m 2	vendroog,	in,	215226.3
1	Tirtapu	lly Hill fro	m Nu	ndydroog	139499.8	7
411	Nundydroog,	51 31 44.03 56 23 44 72 4 35.47	-1.0 -1.0 -1.2	All (46)	51 31 48 56 23 42.5 72 4 34.5	machinan cuker (10
959	150	80 00 3.5		3.15 + .35	180 00 00	
38	ear I	ymandroog fro	Tir	tapully Hi	m,	122112.3
1	N. A.	ymanutoog no		ndydroog,		114788.1

ACCOUNT OF TRIGONOMETRICAL

TRIANGLES-continuen.

	Tirtapull	y Hill from	Rymandro	og 1221	112.3	
No.	TRIANGLES.	Obsd. Angles.	Difference. Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
	Tirtapully Hill, Rymanthroog, Yerracondah,	93° 5′ 51″3 49 22 54.58 37 31 19.33	-1 .04		93° 5′ 49″ 49 22 53 37 31 18	NAME OF THE PERSON OF THE PERS
59	00 00 001	180 00 5.21	4".9	+1".01	180 00 00	Took or
2.5	Yerracondah from Tirtapully Hill,					152185. 200199.
100	Tirtapı	illy Hill from	n Deorabei	tta 176	775.8	
1	Tirtapully Hill, Deorabetta, Yerracondah,	10/00 100	- COLD - OK	1 1-0	97 51 14.4 -57 -20 51.1 44 47 54.5	NEW LO
60	00 00 081	This P	8.87 00	pid "	180 00 00	
	Yerracondah from Deorabetta,					152197. 248529.
	Tirtapully Hill, Deorabetta, Ankissgherry,	52 10 4.27	-1.76 -1.67		59 35 7 52 10 2.6 68 14 50.4	Area la
61	10 10 ENC 8 END				180 00 00	THE REAL PROPERTY.
	00:00:00	Ankissgherry f	rom 2	ully Hill,		150322

	Tirtapi	ully Hill from	n Anki	ssgh	erry 13	50322.7	WET.
No.	TRIANGLES	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
62	Tirtapully Hill, Ankissgherry, Yerracondah,	EXCENT OF STREET THE	177 (47)	12.11		\$8° 16′ 8″ .25 71 53 17.5 69 50 \$4.25	1000
	Their virginian	7 6-11	The same	100	Total !	180 00 00	1
B15	是在1000000000000000000000000000000000000	Yerracondah	from {	The State of		(ill, ',	152196.3 99177.5
	Tirtap	ully Hill from	m Yeri	racon	dah 15	52196.9	
	Tirtapully Hill, Yerracondah, Rymandroog,	THE PERSON NAMED IN	-2.13 -1.03	racon	dah 15	93 5 49 37 31 18 49 22 53	
	Tirtapully Hill,	93 5 51.3 97. 91 19.38	-2.13 -1.03	10.00		93 5 49 97 31 18	Carre

THE side from Tirtapully hill to Yerracondah is the mean distance found in the triangles Tirtapully hill, Deorabetta, and Yerracondah and Tirtapully hill, Ankissgherry and Yerracondah.

	Yerr	acondah from Ryma	ndroog 200	0214.3
64	Yerracondah, Rymandroog, Patticondah,	- 45 11 51.7 —2 .4 - 56 22 20.37 —2 .4	7.9 -4.77	78 25 47.75 45 11 52 56 22 20.25
	101	Patticondah from {	Yerracondah	, 170605.9 285558.9

No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
	Yerracondah, Patticondah, Kylasghur,		-4.8			42° 22' 49" 25 101 21 45.75 36 15 25	
65	eno do desl	180 00 2 .34		7".7	—5 ″.36	180 00 00	
S. Spir	in the second	Kylasgl	ur from	3		h,	282820.3 194445.9

SECTION II.

SERIES of triangles direct from the Base near Bangalore, to Manga-lore on the Malabar coast.

IV. ANGLES.

At Dodagoontah Station.

Between Bonnairgottah,	And .Savendroog, 61°	34'	54" 50 49 55	51".29
Referring Lamp,	-Savendroog, 104 Pole-star's W. elongation, 1	4 31	55 50 29.68 53 56.25 51.25 48.5 46.25	
no et ellecta	ment of the second	14,	47.5 45.5 45.5 43.5 44.5	

.hami At Savendroog. 2

Between	And link	Edwice
Deorabetta,	Bandbully Hill, 44 41' 41":25"	aliceless de ag
26.35 R.	40.5 40.75 41.5 40.25 41.75 40.5	40".93
	Nundydroog,50 14 6.75 7. 5.25 3.5 7.25 8.5	6.37
And Contract	Devaroydroog, 6 56 11.33 10.83 16.58 16.33 12.08	- 13.43
	Bomanelly Hill, 51 25 1.75 2 2.5 2.25	2.19
831	Mullapunnabetta,28 47 59.91 61.16 63.66 64.66	69.35
TAR	Myseer Hill,	33.68
	Mullapunnabetta,46 23 6.34 5.84 6.59	6.26
Wierring Lamp	90 39 58.37 59.25 60.75 61.25 62.5	Horomell III is bayeafted . bayeaftedgy .
	61.5 61 62.95 62.75 59.25	61.16
	### Alin will and the fact of	cell pollstyll

At Savendroog, continued.

Between	And	energy de
Referring Lamp,	Yerracondah, 92 4'51".25	
	49.5 47.75	
	49.5	
188-188	49.5	49".45
	48.55	
	50.62	
a through the same	50,5	
	48.87	
	Pole-star's greatest W. elongation, 2 28 56.75	
	57.25	
	54 53.5	
60	57.75	Hill losson
100	56	
20 SEG1 7 S	58.75 58.75	1
	58.25	
	61.12	
- 112 Y		
	At Devaroydroog.	
Charlint Hill	Rungaswamy Hill,82 48 17.25 }	HE STEEL STATE
	18	17.62
Bomanelly,		44.8
	47.0	The same of the same of
Savendroog,	Nu dydroog,79 52 7.75	Tr masm
A STATE OF THE STA	8 >	8.45
Ni lina el cuito	to the law	- fill sour
Dungaguagu	Bomanelly Hill, 44 59 80.35	ST THE
Chectkul Hill	Rungaswamy,82 48 17.62	
	2-41-00-10-00-0 entrainmentalisti decreador in	ANA SERVE
Bomanelly Hill, .	Chectkul Hill, 127 47 47.97 Chectkul Hill, 38 14 4.75	1 2 4
Savendroog,		
Bomanelly Hill, .		
Bomanelly Hill, .	Savendroog,89 33 44.8	
Bomanelly Hill,	Savendroog,89 33 44.01	
213.	At Bomanelly Hill.	
The second second		
Hytalloo Flag,	Mullapunnabetta,175 40 1.58	1
	0.87	*
	A Calor of the Cal	

At Bomanelly Hill, continued.

Between	And hak	Referent
Hytalloo Flag	And Savendroog,	eli I berlinde
8	19.75	19".94
Referring Flag,	Mullapunnabetta, 86 15 22.75 26.5 24 24.12	24.34
20.25 20.25 20.3 20.3	Daesauneegooda,131 4 38.12 39.75 37.25	38.78
Hytalloo Flag,	Mullapunnabetta, 175 40 1 Savendroog, 70 9 19.94	
Mullapunnabetta,	Savendroog,	
Referring Flag,	Mullapunnabetta, 86 15 24.34 Daesauneegooda, 131 4 38.78	
Daesauncegooda,	Mullapunnabetta, 44 49 14.44	
Daesaunecgooda,	Mullapunnabetta, 44 49 15.87 12.5 14.88	14.90
Ditto,	Do. by the Referring Lamp,	14.44
- 100 A 100	Mean	14.67

At Mullapunnabetta.

Referring Flag,	Bomanelly Hill, 143 22	60.5	entil gein
Economical District	88 Recording 114 48.79	59.5 60.75	
	65.44 - 2.15 v noombook 2195 - 2.15 vs 21	63 58	60.25
Name of the last o	COMPANY OF THE PARTY OF THE PAR	61 59	

Between		And	hak	000000000	1	Bernen
Referring Flag	יום פרות המיקים	. Savendroog	, notentre	97 41	36.38	Hytalloo Flag
\$0. dr	3 or all				36.62	
	(11.6		A		35.4	Belonike Pla
20,32	86 IS 99.75 }		mundersu		32.5	ALL A GIVENING
	20 12 P				32.5	34".96
	21. 4 25.123	1	ogeanment	a	34.5 35.25	
881186	3 CD .8%				33 36.5	
	(0)		E VS. A		33.8	- Per 19 - 1289
	70 0 10.01	t,setted	Action brought	AR	33.87	In I will oo ling
	05 20 41,05	Mysoor Hil	1,	37 59	12	Mullispunish
	STATISTICS.	elind			12.75	Referring Plan
	21.62 4 11	Taranaba	applications of	G	12.25	
	46.46 05 46	must	promitte	M	10.5	12.59
	41 49 13.8EV		and the	H. W.	12.25	Thesaunemen
11.90	1256	7			13.25	*
	10.85 10.01				14.5	100
H.H		Daesauneeg	ooda,	159 -36	39	Ditto,
29.61	nmth				32.75 25.25 >	33.6
					35.5	
		Koondoor I	Iill,	71 37	24.25)	
Marine Street	Ha.	rannaber	Mullay	1 46	24.75 (22.75 (22.94
Defenden Ple	Total Calculation	Voordhulls	- Han	55 99	20)	er 1 5 6
Referring Pla	g,	- Koonunun	y 111119	33 30	44.75	Referring Play
60.25	67.00				43.75	44.68
	80			Anna Par	45.25	
	6. 69				46.75)	
Koondhully I	IIII,	. Hannabetta		45 31	61.5	
	property of the same	- Mulispund	Deffer or		61.75	60.65
					58.5	

Between	And	Bellevin
Referring Flag,	Balroyadroog, 96° 36′ 48″	mort automatic
TE.RI. Ef.ei	46.25 44 49.25	his red
20) 118,82	44.75 48 45.25	46".3
19.95	47.5 45.75	
Thomas of ELES	Bomanelly Hill, 143 23 00.25 Savendroog, 97 41 34.36	
	Savendroog, 45 41 25.89	
	Mysoor Hill, 37 59 12.58 Savendroog, 97 41 34.36	
Savendroog,	Mysoor Hill, 59 42 21.78	
	Bomanelly Hill, 143 23 00.25 Daesauneegooda, 150 36 33.6	
Bomanelly Hill,	Daesauneegooda, 66 00 26.15	
Referring Flag	Daesauneegooda, 150 S6 S3.6 Koondoor Hill, 71 S7 22.94	has already
	Koondoer Hill, 78 59 10.66	
Referring Flag,	Deasauncegooda, 150 86 33.6 Koondhally Hill, 55 38 44.68	
81.86		Savandroom
Hannabetta,	Daesauneegoodn, 49 25 48.27	
	Koondoor Hill, 71 37 22.94 Koondhully Hill, 55 38 44.68	ne in
00.33	Koondhully Hill, 15 58 38.26 Koondhully Hill, 45 32 00.65	diam.
Hannabetta,	Koondoor Hill, 29 33 22.39	
Referring Flag	Koondhully Hill, 55 58 44.68 Bairoyndroog, 96 36 46.3	
Koondhully Hill,	Balroyndroog, 40 58 1.62	

	Mattapannabetta, conditaca.	
Between	And	mentalati.
Referring Lamp, P	'ole-star's greatest W. elongation, 170 43 15".25	
	18.37	
0.1	19.13 19.38	
	20	
	19.62	
	20 19,25	
	19.25	
	170 43 49	PL solly 2002
	48.25 48.13	
100	47.75	H. Asminett.
	49.25	and the same
	48.5	
	50.25	
	to the on will be designed to the state of	
	The state of the s	
	At Bundhully.	
Savendroog,	Deorabetta, 37 30 28.5 }	60 //10
Saventioog,	and by one shooten word 31.75 §	30."12
	Mysoor Hill, 80 2 42.44)	44.19
	45.94	description of
	The state of the s	
	At Cheethul Hill.	
0 1	Demonstrate 194 40 45 193	
Savendroog,	Devaroydroog, 134 49 45.13	45 16
	44,25	45.16
	A7)	
	Service House House II II II II I	
	At Mysoor Hill.	212
Referring Flag.	Bundhully Hill, 55 26 46)	TO Samuel
211111111111111111111111111111111111111	45.75	45.22
	ar ar ar ar and a second area at a second	-tot appune
	Savendroog,	Referred
	46	45.19
8	1 80 Ga accoloryonas 47	Legituding 2

At Mysoor Hill, continued.

	2 12 90001 211113 00	nunueu.	WHEN THE REAL PROPERTY.
Between Plant I William	And		To manufall
Meterring Fing,	Mullapunnabetta,	177° 47′ 26″	Mollisprompillobs
		25.45 27.89	
	lammaeth, 65 2	28.5	Development
CO. 03 0	1 ht gooder out a	27	26".5
Resemble No. 1 april 2	1 67 goodacgerial	25.25	Recognitive 11
40, 60, 70	the state of the state of the state of	25.5	Mallingonalise
Referring Flag,	Bundhully Hill,	55 26 45.22	
	Savendroog,	108 17 45.19	
Bundhully Hill,	Savendroog,	59 50 50 07	
Referring Flor	Maria Charles A	32 30 39.91	
neiering Flag,	Savendroog,	108 17 45.19	Management W.
क्षात्रमा नेहरूका न	aramapumatetta,	177 47 20.5	
Savendroog,	Mullapunnabetta,	73 54 48.31	
25.02	The second secon		secularintarins.
) 0.00			201
A STATE OF THE PARTY OF THE PAR	It Daesauneegoode		
Mullapunnabetta,	Bomanelly Hill,	69 10 25.38)	
	Hannabetta,		25.94
NO. 200 142			6
	Was a seriodondo 2		on Assidations.
	Koondoor Hill,		24.93
Hannabetta,	Koondoor Hill,	42 50 41.62	10 00
	white our subject of the	39.13 5	40.37
E 200 E	A STATE OF THE PARTY OF	1 se er en 1 /s	
1 6	At Wood - 1		of the second
18.81 to	At Koondoorbett		stormet rwois
Mullapunnabetta,	Daesauneegooda,	53 57 29	
	Waller of the same	- 32.75 }	31.17
	Hannabetta,	31.75)	16.25
West of the second	Bairoyndroog,	141 10 47.5 }	47.25
Koondhully Hill,	Balroyndroog,	75 19 10	Receipter The
			17.37
	Balroyndroog,Hannabetta,	141 10 47.25	
Paleons from (18 4)	Wells reported a ring and	15 54 10.25	
Balroyndroog,	Hannabetta,	21 36 31	
		-	

At Koondoorbetta, continued.

Between	And total		Edward
Mullapunnabetta,	Hannabetta,	53 57'31".17 . 119 34 16.25	and gammed
Daesauneegooda,	Hannabetta,	65 36 45.08	
Mullapunnabetta, Koondhully Hill,	Balroyndroog, Balroyndroog,	141 10 47.25 75 12 17.37	
Mullapunnabetta,	Koondhully Hill,	143 36 55.38	Roberton Plan
	Dide		Surv Succession
10 de a	At Koondhully	Hill.	Burdhully His
Koondoorbetta,	Bettatipoor Hill,	78 18 11.5	12".08
Mullapunnabetta	Bettatipoor Hill,	57 53 42.5	- /Socromarts
		42.5	41.44
	Balroyndroog,	22.25	22.25
Koondoorbetta, Mullapunnabetta,	Bettatipoor Hill,	20.25) 78 18 12.08 57 53 41.44	odinauquili M
Mullapunnabetta,	Koondoorbetta,	. 20 24 30.64	
The same of the same	We are a little wat not		
The last of	At Hannabett	a.	cursonmous
Daesauneegooda,	Koondoorbetta,	71 32 35	35
Koondoorbetta,	Balroyndroog,	14.88	17.37
din la			
28·60 · 医肾 /	At Balroyndro	og.	
Referring Flag,	Bullamully Hill,	169 57 5.13	Roomlbully H
	1 131	3.75	4.41
1	Koondhully Hill,		52.75
. 9/4			

At Balroyndroog, continued.

Between	And	
Referring Lamp	Pole-star's W.clongation, 56° 46' 43".5	two which
944	11 CU (note and 43.75	
	19.05	
	10.07	The Anthony
0.01	ALOS	- Marting and A
Referring Flag	Koondhully Hill, 88 44 52.75	
1000	Dunamuny 1110, 169 57 4.41	A
Koondhully Hill	Bullamully Hill, 81 12 11.66	
19943	50 EV	
	At Bullamully.	
Koondhully Hill,	Balroyndroog, 57 46 30)	0 1
	29,25	
47, 100 Y 100, 100	27.25	30".42
C	31.5 31.75	
Balroyndroog,	Kunnoor Hill,	(La Clause Lat
10 to 10	Bullanaudgooda, 80 53 15.75	13.5
82	99	10.10
	21.75	19.19
Bullanaudgooda,	Goompay Hill, 79 17 39	
The second second	43.13	42.17
Goompay Hill,	Kuddapeonabetta 89 14 44.17	
	41.13 41.13	41.56
Meejar Hill,	39.38) 39.38)	
Balroyndraan	30.5	32.87
Danoynaroog,	Mangalore,	
Vanna Tru	25.5 { 24.5 }	25.92
Bullanaudgooda.	Balroyndroog, 118 21 13.5 Balroyndroog, 80 53 19.19	
V	222 Barroyndroog, 222 80 53 19.19	
Aunnoor Hill,	Bullanaudgooda,	
	Goompay Hill, 79 17 42.17	
Goompay Hill,	Kunnoor Hill, 81 27 45.14	
	Ruddapoonabetta, 89 14 41.56	20 10 10 10 10 10 10 10 10 10 10 10 10 10
Kunnoor Hill,	Kuddapoonabetta, 7.46 56.48	To the state of
		- Commission
Bullanaudgooda,	Bullanaudgooda, 80 53 19.19 Goompay Hill, 79 17 42.17	Landi Landi
	77,,	Morgue Hills

At Bullamully, continued.

Balroyndroog, Goompay Hill, 160° 11′ 1″.36 Mangalore, 123 11 25.99 Goompay Hill, Mangalore, 76 37 32.72
Balroyndroog, Kunnoor Hill, 118 21 13.5 Kunnoor Hill, Kuddapoonabetta, 7 46 56.42 Kuddapoonabetta, Balroyndroog, 110 34 17.08 Meejar Hill, Kuddapoonabetta, 34 37 32.87 Balroyndroog, 75 56 44.21 At Ungargooda. Balroyndroog, 91 20 62.25 59.5 59.5 62 Bullamully Hill, 91 20 62.25 59.5 62 Bullamully Hill, 126 11 27.5 25.75 30.25 30.25 27.88 Meejar Hill, Booggargooda, 28 59 12.75 13 9 6.25 At Booggargooda. Bullamully Hill, 113 5 40.75 43.25
Balroyndroog, Kunnoor Hill, 118 21 13.5 Kunnoor Hill, Kuddapoonabetta, 7 46 56.42 Kuddapoonabetta, Balroyndroog, 110 34 17.08 Meejar Hill, Kuddapoonabetta, 34 37 32.87 Balroyndroog, 75 56 44.21 At Ungargooda. Balroyndroog, 91 20 62.25 59.5 59.5 62 Bullamully Hill, 91 20 62.25 59.5 62 Bullamully Hill, 126 11 27.5 25.75 30.25 30.25 27.88 Meejar Hill, Booggargooda, 28 59 12.75 13 9 6.25 At Booggargooda. Bullamully Hill, 113 5 40.75 43.25
Balroyndroog,
At Ungargooda. Balroyndroog, Bullamully Hill, 91 20 62.25 59.25 59.25 59.5 62 Bullamully Hill, Meejar Hill, 126 11 27.5 25.75 27.88 Meejar Hill, Booggargooda, 28 59 12.75 13 10.25 13 9 6.25
Balroyndroog, Bullamully Hill, 91 20 62.25 59.25 69 59.25 60".75 69 62 27.88
Balroyndroog, Bullamully Hill, 91 20 62.25 59.25 69 59.25 60".75 69 62 27.88
Bullamully Hill,
Bullamully Hill,
Meejar Hill,
Meejar Hill,
At Booggargooda. Bullamully Hill,
Bullamully Hill,
Bullamully Hill,
43.23
44 45.75 43.08
Charles of the contract of the
Ungargooda,
55.75
56.5 58.75
Bullamully Hill,
Meejar Hill,

At Meejar Hill.

	m vineejai m		
Belween	And Booggargoeda,	54. 97/ 90/ 693	
Journal of Tring	Dooggargooda,	17.88 18	.67
Calculations = 1500000	Kuddapoonabetta,	49 7 52 52.25 56.75	
Kuddapoonabetta,	Kooliebogooda,	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	94
- 10	At Kuddapoona	betta.	il in
Bullamully Hill,	Meejar Hill,	31.25 6 31.	37
Kooliebogooda	Kunnoor Hill,	46.75 40.	5
paller!		57.75 56.	62
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Eedgah Station,	-30 - } 32.	A PROPERTY OF THE PARTY OF THE
00 (0) 081	At Kunnoor I	Fill.	
Bullamully Hill,	Kuddapoonabetta,	123 34 21.25 } 21.	12
8.84	v. TRIANGLI	ES.	
Bonna	irgottah from Savendi	roog 107968.7	io mi

	Bonnairgot	tah from	Save	ndroo	g 10	7968.7	
No.	TRIANGLES. Obs	d. Angles,	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
66	Bonnairgettah, 83° Savendroog,			March 1		85° 20′ 15°.4 35 4 53 .8 61 34 50 .8	
00						180 00 00	
	Dodagoontah St	ation from	13				70556.7 121933.2

ACCOUNT OF TRIGONOMETRICAL

No.	TRIANGLI	E S. Obsd. Ang	gles.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
September 1	Savendroog, Deorabetta, Bundhully,	97 47 5	0°93 7.75 0.19	0.4		44° 41′ 39″.5 97 47 52 37 30 28.5	
67	role ()	180 00 0		Savendi	oog,	180 00 00	260072
	ENAN POLON	Savendroog	17-11-12	Corabe	ua,	**********	184620.5
68	Savendroog, Nundydroog, Devaroydroog,	49 53 5	3.48 -1	AND DESCRIPTION OF THE PARTY OF		50 14 4.3 49 53 51.6 79 52 4.1	
	A1'18 \$ 100 12	Devaroydro	asides	Savendr	oog,	180 00 00	167235.7 168058.8
	Sa	vendroog fre	om Dec	2 17 27 12			
1500	Savendroog, Qeorabetta, Allasoor Hill,	47 20 3	8.73 - 1	.26 .55 .69	200	78 57 45 . 47 20 37 53 41 37 .	AND THE
69	A STATE OF THE PERSON.	180 00 08	5.82	5.4	+0.49	180 00 00	
	8-50 KE W 8-50 W S 8-50 KE S	Allasoor I	Iill from	Savendi Deorab		************	. 145859.1 . 194662.8
16 %	90 80 0	ale Lu			-115	1,000	1 788

	Saven	droog f	rom	Allaso	or Hi	ll 145	859.1	and the same
No	TRIANGLES.	Obsd. A	Ingles	Difference.	Spherical Excess.	Error.	Angles for Calculation	Distantin feet
70	Savendroog, Allasoor Hill, Cheetkul Hill,	62 10	43.71	-1".9 -1 .4 -1 .4			55° 41′ 32″ 62 10 41. 62 7 45.	5
70	SO AL ONLYA!	180 00 (06 .5		4".2	+2".3	180 00 00	Car Di
, Gr	Ton S	Cheetkul I	Aill 6	rom <		og,		145924.1
	Savend	roog fro	m C					
	Savendroog, Cheetkul Hill, Devaroydroog,	6 56 1 134 49 4 38 14	5.16	-2	18 1		6 56 12. 134 49 42. 38 14 5	
71	ED EN IBU E	180 00	3.34	1198	0.7	+2.64	180 00 00	W. Carlo
200	D	evaroydre	og fr	om ?		og, Hill,		. 167224.8 . 28477.0
	Savendr	oog fron	n De	varoyd	roog 1	67229).25	II Iv
- 1	Savendroog, Devaroydroog, Bomanelly Hill,	51 25 89 33 4				Maga F	51 25 00 89 33 40 39 1 20	1
~				19/14		1	80 00 00	
艾	CONTRACTOR OF THE PARTY	Bomanel	ly Híl	I from		droog,	· · · · · · · · · · · · · · · · · · ·	265594.9 207622.1

ACCOUNT OF TRIGONOMETRICAL

Vo.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
N N	Savendroog,	28° 48′ 2″. 35 105 30 41.06 45 41 25.89	-7.5			28° 48′ 0″.4 105 30 33.6 45 41 26	
73	on to oat a s	180 00 9 .3		10".8	-1".5	180 00 00	
	en	Mullapunnabet	to from	-	droog,	all,	357646.2 178809.7
	Saver	idroog from	Bundhi	illy I	Till 26	0072	
	Savendroog, Bundhully, Mysoor Hill,	. 47 6 33.68 80 2 44.19	8 -4.1 -6.2	No.		47 6 29.5 80 2 38 52 50 52.5	1440 1440 1440 1440
74	The state of the s	180 00 17.8	1	14.5	+3.34	180 00 00	1. 1. 1
7.3		Mysoor H					
	Sar	endroog fro	m Myso	or H	ill 321	1385.4	
	Savendroog, Mysoor Hill, Mullapunnabetta,	. 46 23 6.5 73 54 48.	26 —5 ·	7		46 23 00.5 73 54 44 59 42 15.5	
7	5	180 00 16.	35	19.	7 -3.3	5 180 00 00	
		Mullapunnab	a little de	2		,	

	Savendr	oog from Mul	lapunn	abett	a 35	7641.2	THE PARTY OF		
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error	Angles for Calculation.	Distance in feet.		
76	Savendroog, Mullapunnabetta, Bomanelly Hill,	28° 48′ 2″.35 45 41 25.37 105 30 41.06			08	28° 48' 00′.4 45 41 26 105 30 33 .6	dominated		
10	00, eo dat	180 00 8.78	h	0"8 -	2'.02	180 00 00	10		
10	Bomanelly Hill from Savendroog,								
	Saven	droog from M	ullapu	nnabe	tta 3	57641.2			
77	Savendroog Station, Mullapunnabetta, Mysoor Hill,	46 23 6.26 - 59 42 21.78 - 73 54 48.31 -		er to	9116	46 23 0.5 59 42 15.5 73 54 44	politico A		
	180.00.00	180 00 16.85	19	0.7	3.35	80 00 00			
	180 201	Mysoor Hill fro	m 2	the second second			921387.6 269477.5		
	Mull	apunnabetta f	rom B	oman	elly 1	178807.7			
1	Bomanelly Hill,	66 00 26.15 44 49 14.67 69 10 25.94	1 .8	1 Co (10)	4	66 0 25.8 14 49 12.7 59 10 23.5	en trade network of large of		
	00 00 0810	80 00 06.76	5.	2 +1	.56 18	80 00 00			
1		esauncegooda fro	m {			a,1			

ACCOUNT OF TRIGONOMETRICAL

	Mullapunnabetta from Daesauneegooda 134849-9	
No.	TRIANGLES. Obsd. Angles. Process Calculation	
	Mullapunnabetta, 49° 25′ 48″27 —1″ .25 49° 25′ 47″ 89 54 6.00 —2 .37 89 54 3. 40 40 09.	6
79	00 100 081 90 19 800 00 00	
	Hannabetta from Mullapunnabetta,	
	Mullapunnabetta from Hannabetta 206922.5	
	Mullapunnabetta,	Nullape Mullape Mysoord
80	VALUE OF A 15 - 15 - 10 10 10 10 180 00 00	1
	Koondoor Hill from Mullapunnabetta,	122081.6 117355.7
	Mullapunnabetta from Daesauneegooda 134849.9	
	Mullapuunabetta, 78 59 10.66 —1 .6	3
81	180 0 6.76 3".8 +2".96 180 00 00	
	Koondoor Hill from Mullapunnabetta, Daesauncegooda,	100

	Daesaun	eegooda from	1 Hann	abeti	a 157	180.4	TUE S		
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.		
82	Dacsauncegooda, Hannabetta, Koondoor Hilly	71 32 35.00	-1.5	51 51	kt	42° 50′ 40″,4 71′ 32° 34.7 65′ 36′ 44.9	Shripp II		
0.2	00 00 081	180 00 0.45		4"	-3'.6	5 180 00 00	1		
ш	20519	Koondoor Hill	from	10.	11000	ooda,	. 163701.8 . 117355.7		
	Hannabetta from Koondoorbetta 117355.7								
	Hannabetta,	136 19 17.57 21 36 31	-5.96 + 0.85	6 61	(D)	136 19 13.4 21 36 31.9 22 4 14.7	Marco Mi milo Mi terringi Ligningi		
83	00.00 00 081				reily	180 00 00			
	ences success and	Balroyndroo	g from	CHILLIA	Min make		E LA LA LA		
H	Mullap	unnabetta fr	om Koo	ndoo	rbetta	122081.4			
81	Mullapunmabetta, Koondoorbetta, Koondhully Hill,	15 58 38.26 143 36 55.38 20 24 30.64	-4.22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 and 100 an	15 58 59 143 36 50 20 24 31	610105 (4107) (4108) (4108)		
Ot		180 00 04.28		1.65	+2.63	180 00 00			
	thy Tills 2 EPSHS	Koondhully	from ?			etta,	207682.8 96366 .3		

THE side Mullapunnabetta from Koondoorbetta is the mean distance had from the 80th and 81st triangle.

ACCOUNT OF TRIGONOMETRICAL

TRIANGLES-CONTINUED.

	Koondoorbe	etta from K	oondhi	ully I	Hill 96	366.3		
Vo.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.	
	Koondoorbetta, Koondhully Hill, Balroyndroeg,	75-12/17".37	-1".7	No. of Street, or other Persons and Street, o		75° 12′ 15″.67 78 48 9.73 25 59 34.6	Marine Total Control	
85	to starto			100	nell .	180 00 00		
		lroyndroog fro	m ?		1111111111	,		
	Koondoorbe	tta from M	ullapu	nnabe	tta 12	2081.4		
	Mullapunnabetta,	141 10 47.25	-9.41	1/51	12	141 10 37.8 -24 -59 21.75 -13 50 00.45	Strail!	
86	(7) 00 0 C			1		180 00 00.00	-	
	Balroyndroog from { Koondoorbetta,							
	Multapun	nabetta from	n Koon	dhuli	y Hil	207682.8		
	Mullapunnabetta, Koondhully, Balroyndroog,	40 58 01.65 99 12 22:23			7	40 57 59.5 99 12 16.2 39 49 44.3	alliess.	
87	13 16 06 1			4	The same	180 00 00.00	anotor 1	
100	Balroyndroog from Koondhully Hill,							

Two sitts Wallapunacetta from Koondoorlette in the menn distance had.

strong the a delt and was triangle,

	Koondhul	ly Hill from	Balro	yndro	og 2	12588.5	
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
	Koondhully Hill, Balroyndroog, Bullamully,	81° 12′ 11″.66 57 46 30.42	-3".5 -2 .4			41° 01′ 23′.8 81 12 8 .2 57 46 28	
88	10 00 00 021					180 00 00	
	B	ullamully from	13			l,	248343.2 164944.6

THE side Koondhully hill from Balroyndroog is the mean distance found in the 85th and 87th triangle.

	Balr	oyndroog	from	Bullar	multy 1	64944.6	
·89	Balroyndroog,Bullamully,Ungargooda,	59 54 19 91 21 00	0.37 0.75 -1	.6		28 44 41.5 59 54 19.2 91 20 59.3 180 00 00	AND THE
1801 1801	(A) maj	Ungargo	oda from	3	royndroo	g,	142749.3 79345.5

THE supplemental chord angle at Bullamully, between Meejar hill and Ungargooda, corrected, is subtracted from the observed angle between Balroyndroog and Meejar hill, to get the angle at Bullamully, between Balroyndroog and Ungargooda, as an observed one.

	TRIANGLES.	Obsd. Angles.	Difference	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
I	Bullamully, Ungargooda, Meejar Station,	126*11'27".88 37 46 8 .19	-0".7 +0 .2	10 10		16° 02′ 24″.8 126 11 27.2 37 46 08	100 100 100
90	00 03 085			1 1		180 00 00 00	

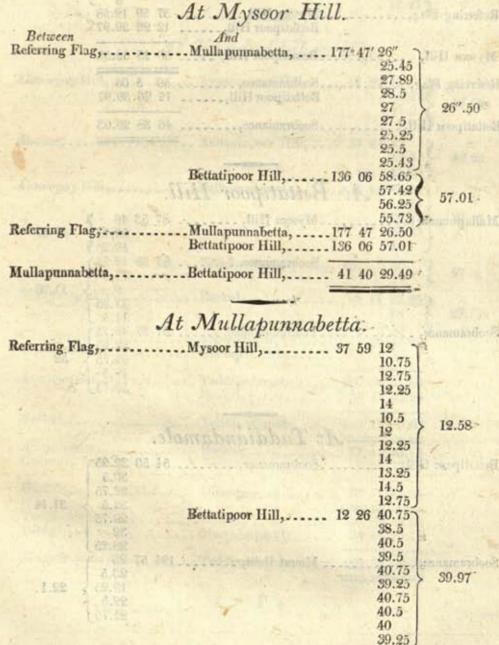
At Meejar hill, the supplemental chord angle between Booggargooda and Ungargooda, corrected as an observed one, and subtracted from the observed angle between Booggargooda and Bullamully, gives the angle between Bullamully and Ungargooda as an observed angle.

	Buttamu	illy from M	eejar S	tatio	n 104	550.	2	
	Bullamully,	A LONG THE RESERVE AND ADDRESS OF THE PARTY		・自然に		49	37 33.75 07 54.5 14 31.75	
91	308.00-0413	179 59 57.91		1.11	-3.2	180	00 00	
CO.	Kuda	apoonabetta fro	m					79536 59763
	- Bulla	amully from	Kudap	oona	betta :	7959	6	rest at
NAS ONE	Bullamully,	48 98 45.5	+0.17	1-14		48	46 55.5 38 44.7 34 19.8	Ungar Bulnin
92		180 00 03.04	D. CH.	0.18	+2.86	180	00 00.00	Belngs
				(D 11		THE		71655.7

SECTION III.

Southern series of triangles, commencing from Mullapunnabetta and Mysoor hill, and continued to the Malabar coast, terminating with the distance from Bullamully to Kunnoor station, which is also brought out by the northern series.

VI. ANGLES.



DOOR

Between	And And	MAKINT!
Referring Flag,	Soobramanee,59 * 05′ 03″.25′ 07.5 5.75 6.75 4.75	06".
Referring Flag,	Mysoor Hill,	E A
Mysoor Hill,	Bettatipoor Hill, 50 25 52.55	
Referring Flag,	Soobramanee, 59 5 06 Bettatipoor Hill, 12 26 39.97	
Bettatipoor Hill,	Soobramanee, 46 38 26.03	
THE PARTY OF THE P	At Bettatipoor Hill.	
Mullapunnabetta,	Mysoor Hill, 87 53 46 50.75 49.25 Soobramanee, 83 35 12.75	48.67
Soobramauee,	11.5 9 11.55 11.5 11.5 11.5 51 37 49.75 52.25 54.75	11.26
Man A	49.5 53.75,	
CF-91	At Taddiandamole.	13
	Soobramanee, 54 50 32.25° 30.5 32.75 32.5 29.75 32 28.25°	31.14
Soobramanee,	Mount Delli, 124 57 23 23.5 19.25 22.5 21.75	22.1

At Mount Dilli.

Between	. And	and the same of	
Kunduddakamully,	Taddiandamole,	. 60° 21′ 24″.75 31.5 28″.08	
75.10 \$ CT.90 13 C	Munjuimpuddy,	9.5 9.5 10.25	0013
At	Kunduddakan	iully.	Ciuri
Goompay Hill,	Annantapoor Hill,		duta
Backul, 40,88 00 0		9)	Mon
Goompay Hill,		43.5 43.25	
- t	Count Dilli,	41 95	sai2f
(28	Taddiandamole,	41 J . 151 2 30 27	
Munjuimpuddy,		28 29.75	ooD)
Goompay Hill,	Annantapoor,	- 15 56 10.69 151 2 27	
Annantapoor,	Baekul,	57 41 43.25	DEN.
Backul,	- Baekul.	87 41 48 95	MARK.
Goompay Hill, Backul,	Annantapoor,	- 15 56 10.69 - 53 57 53.94	
Taddiandamole,	Rackul	155 19 39.06 25 44 29.75	
Munjuimpuddy,			IEI
	P 4		

At Backul.

Between	And		.wenter
Munjuimpuddy,	Mount Dilli,	57.75	57".67
CORN TO BE	Kunduddakamully,	58.5	61.37
Goompay Hill,	The state of the s	0.5	59.58
Goompay Hill,	Kunduddakamully	62	09.00
Goompay Hui,	and had had all and the same of the same o	55.25	55.58
Munjuimpuddy,	Mount Dilli,	200-0-000	III, quiques
7 0.11	Kunduddakamully,	. 32 32 01.37	
Mount Dilli,	. Kunduddakamully,	65 09 59.04	halis
(12.83	M	77:11	Wasandan
The state of the s	Munjuimpuddy		ET Abeliateo
Kunduddakamully,	. Mount Dilli,	10.5	9.31
05 0 100	Political in the contract of	9.25 8.5	
1 12		TT:11	
1476 7570 3 1070	Annantapoor		and of the last
Goompay Hill,		10 05 1	14.67
79 % 161	AminiApoor	17.25	
108 48 37.69 47 41 88.93	At Goompay H	ill.	600 phonon
Ballanandgooda	A STATE OF THE STA		Time
		14	14.94
	Annantapoor,	140 37 3.75	tt Andmisse
\$4.25 TZ 54	Goompay,	4.75	4.57
10.00 et 201	Kunnoor Station,	2.5)	intime box
		50 46.25	48.25
Ballanandgooda,	Bullamully,	35 9 14.94	
Bullamully,			

At Bullamully.

Between	And one of		
Ballanandgooda,	Goompay Hill, 79°17' 3	9"	St. Johnnooth
2012	Balroyndroog, 80 53 1	13.13	42":17
	The state of the s	21.75	19.19
Balroyndroog,	Kunnoor Station, 118 21 1	7.25)	Butatuum
Balroyndroog,	- Ballanandgooda, 80 53 1	9.19	
Ballanandgooda,	Kunnoor Station, 160 45 2	7.31	
Ballanandgooda,	- Goompay Hill, 79 17 4	2.17	
Goompay Hill,	- Kunnoor Station, 81 27 4	5.14	
record intibac	(Heltange		

VII. TRIANGLES.

	Mullapa	nnabetta fro	m Mys	soor I	Hill 26	9477.5	
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
93	Mullapunnabetta, Mysgor Hill, Bettatipoor Hill;	41 40 29,49	-2.3	1253		50° 25′ 49″.6 41 40 26.6 87 53 43.8	
33	between Kurilladia	180 00 10.71	II m	8'.8	+1",91	180 00 00	F Ign
200	Mullapur	Bettatipoor Hi	il from {	Myso	or Hill,	179294.4	
	Mullapunnabetta, Bettatipoor Hill, Soobramapee,	83 35 11.26		8	do La	46 38 24 83 35 8 49 46 28	ling.
	02.00.001			1		180 00 00	1
216	(S001)		e from {		punnabe		233359.7

ACCOUNT OF TRIGONOMETRICAL

TRIANGLES-CONTINUED.

1	Bettatipoor	Hill from	n Soob	raman	ee 17	0734	ISB.
No.	TRIANGLES.	bsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
	Bettatipoor Hill, Soobramanee, Taddiandamole,			Figure Park	THE REAL PROPERTY.	51° 37′ 50″.1 73 31 40 17 54 50 29 .2	Santally geologic geologic
95			littl you	amail)		180 00 00.00	cellink
	T	addiandamole	from		الغازالي	II, IiII,	200262. 163730.
	Soobraman	ee Hill fro	m Tad	dianda	imole	163730.4	
96	Soobramanee Hill, Taddiandamole, Kunduddakamully,	74 37 12.54 56 11 14.75	-2.21 -1.71			49 11 36.6 74 37 10.3 56 11 13.1	fr.
50		THE S			1	80 00 00	
	Kunde	nddakamully	from 2			ill,	9160.2

THE supplemental chord angle at Taddiandamole, between Kunduddaka-mully and Mount Dilli, reduced as an observed one, is subtracted from the angle Soobramanee hill and Mount Dilli, as observed at Taddiandamole, to give the angle Kundudakamully and Soobramanee hill. The station at Kunduddakamully could not be seen when the angles were taken at Taddiandamole.

180 00 00	97	Taddiandamole, Kunduddakamully, Mount Dilli,	69 18 26.71 60 21 28.08 —1.44	50 20 8.26 69 18 25.10 60 21 26.64	rands.
				180 00 00	

The supplemental chord angle at Kunduddakamully, between Mount Dilli and Munjuimpuddy, made as an observed angle by applying the correction, and subtracted from the observed angle between Munjuimpuddy and Taddiandamole, gives the angle Mount Dilli and Taddiandamole as an observed angle.

TRIANGLES-CONTINUED.

ES. Obsd. Angles. Street Angles for Calculation. Dist	stanc feet.
86°01′12″.35 —1″ 65 09 59 .04 —0 .6 86°01′11″.35 28 48 50.21 65 09 58.44	
180 00 00 00	
180 00 00 00 180 00 00 180 00 180 00 00 180 00	

In this triangle the same supplemental chord angle between Mount Dilli and Munjuimpuddy, corrected, is added to the observed angle at Kundudda-kamully, between Baekul and Munjuimpuddy, to get the observed angle between Mount Dilli and Baekul.

	Kundu	addakamully from Baeki	ul 70162	Telesco.
99	Kunduddakamully, Backul, Goompay Hill,	53 37 53.94 —0 .4 92 36 55.58 —0 .9	53 37 53.54 92 36 54.68 33 45 11.78	ino/a
99	The state of the state of	Elifornia de la	180 00 00.00	
	Goo	mpay Hill from 3		126145.9 101681.9

100	Kundudd	akamully from	m Goom	pay	Hill	126145.9	right for
No.	TRIANGLES.	Obsd. Angles.	Difference.	Excess.	Error.	Angles for Calculation.	Distance in feet.
	Kunduddakamully, Goompay Hill, Ballanandgooda,	96° 14′ 39″ .85 83 44 30 .21	-0 .6 -0 .7			-26° 14′ 38″75 83 44 29.5 70 00 51.75	
100	and objects	1131 8	Compa		8 (00	180 00 00	32.70 TO
		Ballanandgood	a from {	Goon	рау Н	ill,	133429. 59355.8
	Goompo	ly Hill from	Ballan	and	gooda	59355:8	21002
	Goompay Hill, Ballanandgooda, Ballamully,	35 09 14.94 79 17 42.71	_0.12 _0.18			35 09 14.8 65 33 02.7 79 17 42.5	
101	econ .					180 00 00.00	
	office at Kirolina A colorina at Kirolina	Bullamully fro	Good Balla	npay	Hill,	,	54990.2 34781
	Goomp	ay Hill from	Bullan	null	y 549	90.2	N BY
	Goompay Hill, Bullamully, Kunnoor Station,	57 57 33.31 81 27 45.14	-0 .28 -0 .39			57 57 33 81 27 44.75 40 34 42.25	
102	A CONTRACTOR OF THE PROPERTY O	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1		180 00 00.00	PART .
	Kun	noor Station fro	m J	2021		,	1

THE same side Bullamully from Kunnoor hill brought out down from the northern series is 71655.7 feet: therefore the mean will be 71657.55 feet. Hence, as the side Bullamully from Kunnoor hill, brought down from the northern series, is to the mean, so is the side Meejar hill and Kudapoos nabetta, brought down by the northern series, to 59764.6 feet, as derived from the mean of both series.

Z	Meeja	r Hill from	Kudap	oonal	betta	59764.6	
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
103	Meejar Hill, Kudapoonbetta, Kooliebogooda,	\$7*55' 19".94 58 24 56.69	-0" 12 -0 .17			37° 55′ 19″.8 58 24 56 .5 83 39 43 .7	
103	Court Version					180 00 00.00	
	Koo	liebogooda from	13	No.			61224.7 6956.5

ACCOUNT OF TRIGONOMETRICAL SECONDARY TRIANGLES.

	Kudapoonabetta from	Kooliebogooda 36956.5
No.	TRIANGLES. Obsd. Angles.	Distances from the intersected Objects in Feet.
	Kudapoonabetta, 86*11' 32' Kooliebogooda, 25 28 59 Eedgah Station, 68 19 19	} Eedgah Station,
	Eedgah Station from	Kooliebogooda 39680.7
r in	Eedgah Station, 66 09 43 Kooliebogooda, 14 30 24 Station on the Beach, 99 19 53	Station on the Beach, { 10073 36782.3
	Bullamully from (Goompay Hill 54990.2
	Bullamully,	Mangalore,
		unnoor Station 71659.4
	Bullamully,	Mangalore,
107		induddakamully 132113
	Mount Dilli, 132 10 39 Kunduddakamully, 18 46 24 29 02 57	Cannanore, 87563
		n Mount Dilli 160548.9
	Taddiandamole, 31 59 09	Cannanore, { 157072 87574
		om Cannanore 157072
	Taddiandamole, 16 51 05 Cannanore, 98 16 45 Station in Redoubt, 64 52 10	Station in Redoubt, 171686 50294
7		tation in Redoubt 171686.4
-	Taddiandamole, 1 29 26	} Tellicherry, { 175846. 6143.

SECTION IV.

Latitude of Dodagoontah Station, with the position of its Meridian.

Dodagoontah station is selected as the point of departure in preference to the observatory at *Madras*, as it is nearly in the middle of the *Peninsula*, and its meridian is intended to be carried down to *Cape Comorin*. It has already been extended below the latitude of 11°, and the series of triangles from which it is deduced, being to form the foundation of all the branches which may hereafter be carried to each coast, I have considered it as the properest meridian to which all latitudes and relative longitudes should be referred.

8. Zenith distances of stars observed at *Dodagoontah*, with their corrections for precession, nutation, aberration, and the semi-annual solar equation, back to the beginning of the year 1805, for determining the latitude of that station.

Observations at Dodagoontah.

NEAREST POINT ON THE LIMB 5º 55' S.

1805	Face.	Obsd. Zenith Distances.	Correc- tion.	Correct Zenith	Therm	ometers.
Month.	E	7 05 10 TR 0	32	Distances.	Upper.	Lower:
July 10. 12. 15. 18. 19. 24. 26. 27. 29. 31. 1806 June 19. 20.	E.	5* 57' 04".49 5 56 59 .38 5 57 07 .74 5 56 54 .73 5 57 9 .64 5 56 59 .24 5 56 52 .13 5 56 59 .41 5 56 52 .73 5 56 16 .76 5 56 10 .88	7".14 6 .93 6 .64 6 .36 6 .26 5 .82 5 .66 5 .58 5 .43 5 .28 19 .08 18 .95	5° 56′ 57″ .35 5 56 52 .45 5 57 01 .10 5 56 48 .37 5 57 3 .38 5 56 53 .43 5 57 00 .08 5 56 46 .55 5 56 53 .98 5 56 57 .68 5 56 57 .68 5 56 51 .93	70° 73 79.5 78 76	70° 73 79 78 76 79 75 79 72 76 73 72
22. 23.	W. E.	5 56 07 .38 5 56 13 .21	18 .70 18 .57	5 56 48 .68 5 56 54 .64	76 73	76 73
-	-			Mean,	75.1	75.1

ACCOUNT OF TRIGONOMETRICAL

HERCULIS.

352

. nothing of Dollar Nearest Point on the Line P 35' N. led to abution.

oin reaseronce	ce.	Obsd. Zenith	orrec- tion.	Correct Zenith	Thermo	ometers.
Month.	Fac	Distance.	Com	Distance.	Upper.	Lower.
July 12.	E.	1 37 19 .8	3 0 - 39	1 87 20 .22	68°	69*
of IIs to 16.	E. W.	1 37 20 .5 1 37 37 .1	4 0 .73	1 37 20 .26 1 37 36 .41	79.5 75	73 76 74
Laberingto 29.	E. E.	1 37 35 .8 1 37 29 .5 1 37 23 .1	5 2 .16 5 2 .42	1 37 33 .85 1 37 20 .59 1 37 20 .74	74 76 69	76 as ti
August 2.	W. E. W.	1 37 35 .20 1 37 24 .70 1 37 36 .89	6 3 .26	1 37 32 .60 1 37 21 .50 1 37 33 .59	77.5 71.5 71.5	77.5 Hora 72 71
- Test visit 19.	E.W.	1 37 25 .50 1 37 36 .79	6 3 A8 9 3 .58	1 37 22 .08 1 37 38 .21	71 73	71 78
od grida 14.	E. W. E.	1 37 24 .70 1 37 37 .8 1 37 27 .0	7 3 .98	1 37 20 .98 1 37 33 .89 1 37 22 .89	74 74 71.5	74 74 71
	111			Mean,	73	73.5

Observations we lode grounded. « OPHIUCHI.

NEAREST POINT ON THE LIMB O' 15' S.

South Control of the		+	(March Centify		Chair
July 12. E.	0 17 14 .49	0 .29	0 17 14 .78	69	70
13. W.	0 17 03 .10	0 .46	0 17 03 .36	71	72-
15. E.	0 17 13 .54	0 .77	0 17 14 .31	71	71.5
19. E.	0 17 11 .60	1 .43	0 17 13 .03	75	75
22. W.	0 16 59 .10	1 .89	0 17 00 .99	74	74
98 E	0 17 10 .74	2 .76	0 - 17 13 .50	74	74
29. W.	0 16 57 .63	2 .89	0 17 00 .52	76.5	76
30. E.	0 17 09 .24	3 .02	0 17 12 .26	77	77
31. W.	0 16 58 .93	3 .15	0 17 02 .08	69.5	69
August 7.1 E.	0 17 08 .51	4 .02	0 17 12 .53	72	72
8. W.	0 16 57 .24	4 .14	0 17 01 .38	71	71
9. E.	0 17 09 .08	4 .25	0 17 13 .33	71	71
10. W.	0 16 57 .76	4 .36	0 17 02 .12	73	73
12. E.	0 17 07 .54	4 ,58	0 17 12 .12	78	73, 5
14. W.	, 0 16 55 .13	4 .78	0 16 59 .91	74	74
17. E.	0 17 8 .74	5 .07	0 17 13 .81	72.5	72.5
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STREET STREET	Mean,	72.7	72.8

VAQUILÆ.

NEAREST POINT ON THE LIMB 2º 50' S.

1805	Face.	Obs	erve	d Ze	nith	rrec	Correc- tion.		Correct Zenith			. Thermometer.		
Month.	F	Distance.				0.7		Distance.				Upper,	Lower	
July 12.		2"	50'		1.13	7		24	51	0.3	.09	67*,5	68°	
13. 15.	W.	2 2	50	42	.80	8	.17	2 2	50 51	50	A 100 A	70 69	70 70	
16.	W.	2	50	42	.50	8	.77	2	50	51	.27	70	71	
19. 22.		2 2	50	55 37	.50	9	.56	2 2	51 50	47	.86	74	73 72.5	
31.	E.	2 2	50 50	50 39	.40	11	.58	2 2	51 50	1 52	.98	69	69	
August 7.	E.	2	50	46	.13	12	.92	2	50	59	.05	70 69.5	70	
9. 10.	W. E.	2 2	50	40	.75	13	.08	2	50	53	.83	70 70	70	
12.	W.	- 2	50	38	.33	13	.55	2	50	51	.88	73	72	
	W.	2 2	50	48.	.63	13	.70	2	51	52	.57	70 72	70 72	
20. 30.		2 2	50	49 38	.00	14	.70	2	51	3 54	.70	70 72	70 72	
. 50.1	11.4.1	-		-	120	10	.0/11	-	U		in,	70.6	70.6	

ATAIR.

NEAREST POINT ON THE LINE 4 35 S.

	ME HO	1	3000	1350	1		13	+			4.1	100	1	
J	uly 12.	E.	4	37	55	.62	8	.49	4	38	10	.11	67.5	68
		W.	4	37	42	.39	8	-68	4	37	51	.07	70	70
	15.		4	37	56	.47	9	.07	4	28	05	.54	69	70
		W.	4	:37	43	.59	9	.26	4	57	52	.65	70	71
	19.		4	37	56	.14	9	-83	4	-38	5	.97	73	72.5
	. 22.		4	:37	42		10	STATE OF THE PARTY	4	87	59	.42	73	73
3 119	29.	E.	4	37	-53		111	-65	4	58	5	.54	74.5	74.5
	30.		4	37	40	.39	11	.82	4	37	52	.21	76	76
	31.		4	37	51	.84	11	.99	4	38	3	.83	69	69
Aug	gust 7.	W.	4	37	40	.96	13	.13	4	37	54	.09	- 71	71
	8.	E.	4,	37	48	.87	13	.28	4	58	.01	.66	69.5	70
		W.	4	37	41	.89	13	.44	4	37	55	.33	70	70
	10.		4	57	48	.34	13	.59	4	38	1	,93	70	70 -
	12.		4	37	39	.76	13	.89	4	57	53	.65	. 73	7.2
	13.	E.	4	37	48	.17	14	.04	4	58	2	.21	70	70
	17.		4	37	41	.86	14	.60	4	37	56	.45	72	72
	20.		4	37	49	.37	14	.99	4	58	4	.36	70	70 .
300	30.	W,	4	37	37	.89	16	.16	4	37	54	.05	72	72
411				1							Mea	ın,	71.1	71.2

BAQUILÆ.

NEAREST POINT ON THE LIMB 7° 5' S.

1806	Se.	Observed Zenith	Correc- tion.	Correct	Zenith	Thermometer.	
Month.	Face.	Distance.	Cor		ance.	Upper.	Lower.
August 25. 1 26. 27.	W.	7° 03′ 38″ .62 7 03 29 .87 7 03 40 .87	26 .37	7° 4′ 7 3 7 4	4" .89 56 .24 7 .34	76° 72 71	76° 73 71
	338	CONTRACTOR OF THE PARTY OF THE			Mean,	73	73.3

ARCTURUS.

NEAREST POINT ON THE LIMB 7 10 N.

1805 July 11. W. 13. E. 16. W. 22. E. 26. W.	77777	12 11 12 11 12	19 58 11 59 13	.13 .36 .98	7 7 6 6	.50 .36 .16 .85 .60	7 7 7 7	12 12 12 12 12	19 .93 6549 18 .52 6 .83 19 .95	-1	74.5 74.5 77 79.5 83
THE PERSON NAMED IN	100	-		45.5		2011			Meany	77.9	77.7

MARKAB.

NEAREST POINT ON THE LIMB 1 10 N.

August 13. E. 14. W. 17. E. 21. W. 23. W. 28. W. 29. E. 30. W.	1 1 1 1 1	10 5 9 55 10 5	.00 .30 .00 .40	99 99 23 24 24 25	.72 .09 .98	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	9 9 9 9 9 9 9 9	49 32 41 41 39 34	28 98 97 58 91 42 82 15	68 69 69 68 72 68 72 71	68 70 70 69 72 69 72 71
TEST 1 8.47	detal.		17	0735	1051	110	20	Mean	,	69.6	70.1

PEGASI.

NEAREST POINT ON THE LIMB I 5 N.

August 22. E. 23. W. 27. E. 30. W.	IIII	6 6 6	23	.63	21	.04 .42 .95 .44	I I I I	5 6 5 6	57 .22 07 .21 58 .56 09 .69	68 70 68 68	69 7I 69 70
The state of the s		197	1		JIII	107	-	Mean,	68.5	69.8	

Means of the Zenith Distances taken on the right and left Arcs, corrected for refraction, equation of the sectorial tube, and the mean runs of the Micrometer.

Previous to this arrangement of the zenith distances it may be proper to say a few words on the different corrections here mentioned.

The refraction is had from the tables of mean refraction, and no notice taken of the barometer or thermometer, or of the heights of the stations above the level of the sea, considering it doubtful what corrections to apply until observations are made, and tables of refraction constructed, for this climate, and for different elevations.

The corrections for the micrometer were determined by taking the runs between every dot on the are when the mean temperature was 74°, it having been discovered upon more minute attention, that one degree on the limb was more than 36co divisions marked seconds on the micrometer; and the average of all the results gave 3604. Therefore one minute counted by that scale required a deduction of o'.o66 to give its true measure from the nearest dot. In all these observations two thermometers were used, one opposite the upper axis, the other opposite the arc, and the experiments for ascertaining the runs were made when the thermometers stood at the same degree.

This error in the scale of the micrometer has doubtless arisen in a great measure from the unequal expansion of the sectorial tube and the frame which carries it, whereby the point of the screw does not coincide with the centre of the steel plate against which it presses, and in consequence causes a greater equation than what would arise simply from

the expansion of the arc while the point rested on the centre of the plate. Exclusive of the above correction, I have endeavoured to make some allowance for the variation of temperature from 74°, but I have found it too-trifling to be noticed.

THE correction for the sectorial tube, is a small equation which arises when the temperature above is different from that below; on which account the expansion and contraction of the tube are not in the same ratio with those of the arc. This irregularity, like the last, is in general very inconsiderable, though the correction for it is taken into account.

ZENITH DISTANCES at Dodagoontah, arranged and finally corrected.

SERPENTIS.

1805	Left Are.		Left Arc. 1805 Right Arc.	
Month.	Leje Zie.	Month.		
July 10. 15. 19. 26. 29.	5 56 53 .98	July 12. 18. 24. 27. 31. 1806 \ 20.	5 56 48 .97 5 56 53; .42 5 56 46 .55 5 56 47 .45	Mean, 5° 56′ 53′ .8° Refraction &c + 5 .8° Zenith Distances, 5 56′ 59′ .6°
1806 { 19. June { 19. 23.	5 56 54 .64	June 9 20.	5 56 48 .68	COMPANY DOWN TO THE PARTY OF TH

a HERCULIS.

1805	T = 64 A = .	1805	Di te de	Mean.	H TOTAL OF
Month.	Left Arc.	Month.	Right Arc.	mean.	Walde.
July 19. 28. August 2. 8. 10. 14.	1° 37′ 36″ .41 1 37 38 .85 1 37 32 .60 1 37 33 .52 1 37 33 .21 1 37 33 .89	July 12. 16. 29. 31. August 7. 9. 12. 16.	1 37 20 .26 1 37 20 .59 1 37 20 .74 1 37 21 .50	Mean, 1' Refraction &c Zenith Distance, 1	+ 1 .47
Mean,	1 37 33 .91	Mean,	1 37 21 .13		T TO

a OPHIUCHI.

0.00					7.9		1	1	100		-
July 12.	0 17 1	4 .78	July 13.	0 17	03 .	56	Mean,	0	17	7	.40
	0 17-1		22.	0 17	0 .	99	Refraction &c		+	0	.31
19.	0 17 1	3 .03	29.					9	100		
28.	0 17 1	3 .5	31.	0 17	2 .	.08	Zenith Distance,	. 0	17	7	.71
30.	0 17 1		August 8.	0 17				-	1000	-	Control of the last
August 7.	0 17 1	2 .53	10.								
9.	0 17 1		14.	0 16	59 .	91		114		MIN	
12.	0 17 1		BILL ST				formation at the				
17.	0 17 1	3 .81	8			M					1
Mean,	0 17 1	3 .30	Mean,	0 17	1 .	51	1				

AQUILE.

July 12. 15. 19.	2 51 2 51 2 51	0	.09 .07 .86	July 13. 16. 22.	2 50 50 2 50 51 2 50 47	.27	Mean, 2 50 57 .0 Refraction &c + . 2 .78
August 8.	2 51	1 59	.98	August 7.		.16	Zenith Distance, 2 50 59 .78
10. 13. 20.	2 51 2 51	2	.33	17. 30.	2 50 52	.57	AND THE ZOO & SECTION
Mean,	2 51	2	.23	Mean,	2 50 51	.77	THE SAME IN WHICH SAME

ATAIR.

1805 Month.	F.	Left	Ar	c.	180 Mon	-	R	igh	t A	rc.		Mea	7.			1000
July 12. 15. 19. 29. 31. August 8. 10. 13. 20.	4 4 4 4 4 4 4	38 38 38 38		.11 .54 .97 .54 .85 .66 .93 .21 .36	July	16. 22. 30.	4 5 4 5 4 5	17 17 17 17 17 17 17 17 17	52 52		Refrace	Distance,		+	4	.34
Mean,	4	38	3	.91	Mea	n,	4:	37	53	.55	1					

BAQUILE.

1806 August 25. 7 4 27. 7 4	4 .89 August 26.	7 8 56 .24	Mean, 7 Refraction &c	4+	1 .18 7 .18
Mean, 7 4	6 .11 Mean,	7 8 56 .24	Zenith Distance,7	4	8 .36

MARKAB.

1805 August 14. 21. 23. 28. 30.	1 9 42 .98 I 9 41 .58 1 9 41 .91 1 9 39 .42 1 9 41 .15		1 9 32 .07	Mean, 1 9 36 .57 Refraction &c + 1.19 Zenith Distance, 1 9 37.76
Mean,	1 9 41 .41	Mean,	1 9 31 .73	July 10. 2 10.0 101 vite

PEGASI.

Es. De De V ON Off Hange

August 23. 50.	1	6	7 9	.21 .69	August 22. 27.	1 5 57 1 5 58	.22	Mean, 1 Refraction &c	6+	3 .17
Mean,	1	6	8	.45	Mean,	1 5 57	.89	Zenith Distance, 1	6	4 .23

ARCTURUS.

16.	7° 12′ 19″ .93 7 12 18 .52 7 12 19 .95	22. 1 12	0 .83	Mean,	+ 7 .03
Mean,	7 12 19 .47	Mean, 7 19	6 .16	Zenith Distance,	7 12 19 .84

The Latitude of Dodagoontah Station, deduced from the foregoing Stars.

STARS.	From the beg				
profession	Mean Declination.	Correct Z. Distance.	Latitude.		
Arcturus, « Serpentis, « Herculis, « Ophiuchi, » Aquilae, Atair, Aquilae, Markab, » Pegasi,	14 37 30 .96 12 42 50 .91 10 8 58 .34 8 21 53 .53 5 55 52 .71	7° 12' 19".84 N. 5 56 59 .64 S. 1 37 28 .99 N. 0 17 7 .71 S. 2 50 59 .78 S. 4 38 3 .34 S. 7 4 8 .73 S. 1 9 37 .76 N. 1 6 4 .23 N.	12° 59′ 59″.39 N. 59 .97 61 .97 58 .62 58 .12 56 .87 61 .44 62 .33 60 .47		
And by Alice	and the last in	Mean,	19 59 59 .91		

This is one of the stations alluded to in the note p. 291, where the plummet is supposed to have been drawn to the northward; in which case the latitude here deduced must be something in defect.

9. Pole-star observations at Dodagoontah Station, reduced for determining the position of the Meridian.

July 19. 1	Distance.				the N. Pole and
		1		Lamp.	Lamp.
August 8, 1 12, 1 17, 1 18, 1 19, 1 23, 1 26, 1 27, 1	43 58 .20 43 57 .57 43 54 .07 43 53 .05 43 51 .70 43 51 .44 43 51 .16 43 50 .04 43 49 .09 43 48 .83	12-59' 59" .91	1° 46′ 42° .16 1 46 41 .70 1 46 38 .10 1 46 37 .06 1 46 35 .67 1 46 35 .40 1 46 35 .10 1 46 33 .97 1 46 32 .99 1 46 32 .73	1°31′53″.00 1 31′56′.25 1 31′51′.25 1 31′48′.50 1 31′46′.25 1 31′47′.50 1 31′45′.50 1 31′45′.50 1 31′45′.50 1 31′43′.50 1 31′44′.50	0° 14′ 49° .16 0 14 45 .45 0 14 46 .85 0 14 48 .56 0 14 49 .42 0 14 47 .90 0 14 49 .60 0 14 48 .47 0 14 49 .49 0 14 48 .23
Angle between th	e Referring F	lag and Saver	amp N. Easterly	Y,	0 14 48 .31 104 4 29 .68

SECTION V.

Length of the Perpendicular Degree, and the Latitudes and relative Longitudes of all the great Stations of Observation, and other places on the two Coasts.

10. The measurement of an arc perpendicular to the meridian, and the length of a degree in latitude 12° 55′ 10″.

For determining the latitude of Savendroog, we have at Dodagoontah station, the bearing of Savendroog station with the meridian 76° 10′ 18″.63 S. W¹⁷ and the distance between these two stations = 121933.2 feet. These will give the westing of Savendroog = 118399.2 feet, and the southing of the point on the meridian of Dodagoontah, where the perpendicular let fall from Savendroog, will cut the said meridian = 29143.3 feet, which is equal to an arc of 4′ 48″.88, and this deducted from the latitude of Dodagoontah gives 12° 55′ 11″.03. The westing will give an arc perpendicular to the meridian 19′ 29″.04, with which, and the colatitude of the above point, the latitude of Savendroog will be had 12° 55′ 10″.24.

Note. The meridional degree is taken at 60498 fathoms, being the computed degree for latitude 12° 55′ 10″, as deduced from the measured degrees for latitude 11° 59′ 55″ and latitude 52° 02′ 20″.

Pole-Star Observations at Savendroog Station, reduced for determining the position of the Meridian.

1804 Month.	pparent Polar Distance.	Latitude.	Azimuths.	Angle between the Pole-star and Referring lamp.	Angle between the N. Pole and Referring lamp.
7. 8. 9. 10. 13. 14. 15. 16. 21. Angle between	the Helerring I	amp and	1° 46 89° .72 1 46 40 1 46 40 .3 1 46 40 .57 1 46 40 .86 1 46 41 .73 1 46 42 .03 1 46 42 .31 1 46 42 .62 1 46 43 .11 rring Lamp, Mullapunnabetta	2 29 01 .12	0° 42′ 17″ .03 0 42 17 .25 0 42 13 .7 0 42 12 .93 0 42 16 .89 0 42 16 .72 0 42 16 .72 0 42 16 .44 0 42 15 .63 0 42 18 .02 0 42 15 .89 E. 90 40 01 .16
Angle between	the North Pole	and Refer	rring Lamp, Yerracondah,	THE PROPERTY OF THE PERSON	0 42 15 .89 E. 92 04 49 .45
Angle between 1	the North Pole	and Yerr	acondah,		92 47 05 .34 E

Pole-Star Observations at Mullapunnabetta Station, reduced for determining the position of the Meridian.

410				1		2	4031	2000								
Nov.	7.		12 .37	The state of the s	1	46 2	4	1170	43	15	.25	172	99	39	.25	-
	8.		12 .03				3 .65	170	43	18		172			.65	
	10.	1 43	41 .36		1	46 2	2 .96				.37	172			.33	
and the	12.	1 43	4071				2 .29				.18	172			.42	
	13.	1 43	10 .39	To be a second		46 2					.38	172			.34	
le Tries	14.		10 .07	t.		46 2		170			.00	172			.64	
El III	15.		39 75	- IN THE		46 2		170			69	172				
1	46.		39 _42	12	4		0 .97					172				
	17.		11. 08	F			0 .65				.25	172			.94	
	19.		88 .49	55			0 .02				.25	172				
805	1			05	1 2			- Control			.23	112	29	99	.21	
Dec.	12.	1 43	13 .24	-66-30-11	I	45 5	4 -11	170	43	49		172	29	43	.11	
1	13.	1 43	13 .64	.G	1	45 5	3 .9	170	10	10	.25	POR THE				5
	14.	1 43	12 .85				3 .71				.12	172				
	15.		12 .67				3 .59				.75	172				
	26.		2 .49	N# 12			3 .34				.25	172				
	20.	1 43					2 .67					172				
Dir.	24.	1 43	1 .29	La constant	1	15 5	2 .07		40	40	.2	172	29	401	.87	
	25.		11 -16		1	45 5	1 000	170	10	10	.5	172	29	40	.61	E
100				1 77 2		40 0	1 .99	1170	40	20	.00	172	29	42	.34	
ingle	between	i the ive	orth Pole	and Refe	rring	Lan	p,					172	29	41	.25 W	
ingle l	etween	the Re	terring J	Lamp and	Daver	droc	g,					97	41	34	.36	
CONTRACTOR OF THE PARTY OF THE	1										-	1				-
ingle i	between	the No	orth Pole	and Save	ndroc	g, -						89	48	44	.39 E	1
-		-	-		-							_	-	100		-

Pole-Star Observations at Yerracondah Station, reduced for determining the position of the Meridian.

1804						La	titude.	2	tzin	uth	s:	the 1	Pole	-ste	ar &	the	N.	Po	lween le and
Month		L) istu	шс		100						Refe	rrin	ig li	amp.	Re	feri	ring	lamp.
Jan.	15. 16. 19. 20. 21. 22. 23. 26. 27.	1 1 1 1 1 1	43 4 43 4 43 4 43 4 43 4 43 4 43 4 43 4	19 19 19 19 50 50	.82	CONTRACTOR OF STREET	12-59'14".36	1 1 1 1 1 1 1 1	46 46 46 46 46 46	30 30 30 30 30 30	.42 .43 .51 .53 .56 .63 .68 .87	9° 9 9 9 9 9 9 9	3 3 3	235345	.85 .5 .5 .75	7 7 7 7	16 16 16 16 16 16 16	33 31 32 34 33 33	.08 .42 .49 .97 .94 .12 .52 .19
Angle bet Angle bet	ween	the I	Refe	rrin	g L	mp	and S	aven	dro	g,			10	**		94	16	14	.64 E .97

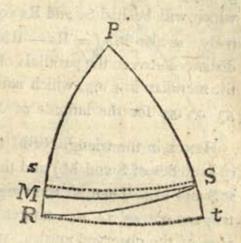
As the latitudes were necessary for computing the azimuths, they were first had spherically for the two stations at *Mullapunnabetta* and *Yerracondah*, by taking the westing and easting from the meridian of *Savendroog*, and converting them into parts of great circles. These came so near the truth, that on recomputing the azimuths by the latitudes finally brought out, there was no sensible difference.

It may be remarked here, that no double azimuths have been taken. The pole-star being so low, and the vapour in the atmosphere so great in general, that I have never, except in two instances, been able to discern it while the sun was above the horizon.

The Arc comprehended by the Meridians of Savendroog and Mullapunnabetta.

LET S and M be the stations at Savendroog and Mullapunnabetta, and P

the pole, and SR be a great circle perpendicular to the meridian SP at S, and also Ss a parallel of latitude at the same point S. Then we have given the observed angles PSM and PMS, the distance SM, and the latitude of S, to find the latitude of M.



In the spheriodical triangle MSR, the angle MSR = 90° — \angle PSM = 0° 2' 14".78, and the angle SMR = 180° — \angle PMS = 90° 11' 15".61, and these being corrected for the chords, we shall have the angle MSR = 0° 2' 14".73, and the angle RMS = 90° 11' 15".58 for the chord angles. Whence the angle SRM = 180° — sums of the above angles, or 89° 46' 29".69, and with these and the side or chord MS, the distance given by the triangles, we shall find the chord of the perpendicular arc SR = 357644.6 and the side MR = 238.64 feet, and this last may be taken either as a chord or arc indifferently.

Now the spherical excess of the triangle SMR is 0".02, and the sum of the corrections for the angles MSR and SMR being — 0".03, the difference between this sum and the said spherical excess is + 0".01 the correction for the angle MRS, which applied to the chord angle, we get the angle MRS or PRS as an observed angle, equal 89° 46' 29".68.

CONTINUE the meridian PS to t, and draw Rt parallel to Ss. Then, since the small angle SRt, or its equal RSs, is half the difference between the angles PRS and PSR, that is half the difference between 90° and the

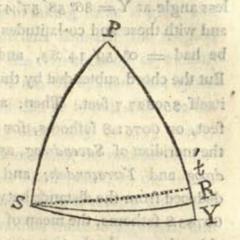
angle PRS as an observed one, we have $\frac{90^{\circ}-(89^{\circ}\ 46^{\circ}\ 29^{\circ}.68)}{2}=6^{\circ}\ 45^{\circ}.16$, the angle RSs. Hence in triangle RSs considered as a plane one, there are given the angles at R and S and the side SR, as formerly found, from which will be had Ss and Rs equal 357642.6 feet and 702.51 feet respectively; as also Ms (= Rs - RM) equal 468.87 feet, which measures the distance between the parallels of S and M. But 468.87 feet as an arc on the meridian is 4".65, which subtracted from the latitude of S gives 12° 55' 05".59 for the latitude of M, the station at Mullapunnabetta.

Hence in the triangle SPM there are given the sides SP and MP (the co-latitudes of S and M) and the angles PSM, PMS, the observed angles at S and M. Then, as the tangent 77° 4′ 52″.085: tangent 0° 0′ 2″.325: tangent 89° 53′ 14″.83: tangent 0° 4′ 31″.26; which last applied to the half sum of the observed angles, we get 89° 53′ 14″.83 + 4′ 31″.26 = 89° 57′ 46″.09 and 89° 53′ 14″.83 - 4′ 31″.26 = 89° 48′ 43″.57 for the angles at Savendroog and Mullapunnabetta such as they would have been observed on a sphere. Then proceeding by spherical computation with the sides PS, PM, and the angles PSM and PMS given, the angle SPM, or difference of longitude of S and M will be had equal 1° 00′ 24″.44, from which and the side SP in the right angled spherical triangle PSR the side SR or arc SR perpendicular to the meridian PS at the point S will be had equal 0° 58′ 52″.71.

Now the chord of the arc SR is had = 357644.6 feet, half of which will be as the sine of half the arc SR, and from which is got the radius of the same arc, and thence the length of the arc SR is found to be 357650.8 feet. Then as 58' 52".71: 357650.8::60': 364463.3 feet, or 60743.8 fathoms, for the measure of the degree at right angles to the meridian of Savendroog.

The Arc comprehended by the Meridians of Savendroog and Yerracondah. LET S and Y be the stations at Savendroog and Yerracondah respectively,

and let the latitude of Y be deduced from that of S, the angles PSY and PYS having been observed. Let SR be a great circle perpendicular to the meridian SP at S, and St' a parallel of latitude at the same point S. Here the angle RSY = PSY - 90° = 2°47′5″.34, and



the angle RYS being the observed angle at Y = 86° 59′ 41″.33. These angles being corrected for the chords, the supplement to their sum will be the chord angle at R in the spheriodical triangle SRY. Let the chords of SR and YR be computed with the corrected angles, then if the angle at R be augmented by the difference between the sum of the corrections for the other two angles and the spherical excess, it will become 90° 13′ 14″.74, or such as would have been observed at R. Hence 180° — \angle SRY = 89° 46′ 45″.26 the angle t'RS, and by considering the triangle St'R as a plane one, the small angle t'SR is equal $\frac{90-Lt'RS}{2}$ = 0° 6′ 37″.37. With this angle, and the angle tRS, and the distance SR, as found above, the small side tR is had=675.86 feet, which added to RY=17067.72 gives t'Y=17743.58 feet, the distance between the parallels of S and Y. But 17743.58 feet is equal to an arc on the meridian of 2′ 55″.98, and this deducted from the latitude of Savendroog, gives 12° 52′ 14″.26 for the latitude of Terracondah.

HENCE, with the co-latitudes of Savendroog and Terracondah, and the observed angles PSY and PYS, we have, the tangent of half the sum of the first, to the tangent of half their difference, as the tangent of

half the sum of the second, to tangent of 2° 54' 25".92, their half difference: from which we get the greater angle at S = 92° 47' 49".25, and the less angle at Y = 86° 58' 57".41 thus corrected for computing spherically: and with these and co-latitudes, proceeding as before, the angle SPY will be had = 0° 59' 14".83, and the perpendicular arc = 0° 57' 44".86. But the chord subtended by this arc is 350824 feet, and therefore the arc itself 350827.7 feet. Then, as 57'.74767: 350827.7 feet:: 60': 364510.8 feet, or 60751.8 fathoms, for the length of the degree at right angles to the meridian of Savendroog, as deduced from the distance between Savendroog and Terracondah; and the length of the perpendicular degree deduced from the distance between Savendroog and Mullapunnabetta being 60743.8 fathoms, the mean of these two, or 60747.8 fathoms, may be considered as nearly the true measure for latitude 12° 55' 10."

If the ratio of the earth's diameters be taken as 1:1.003125, and the meridional degree in latitude 11° 59′ 55″ be 60494 fathoms; then, by using these data, the computed meridional degree on the ellipsoid in latitude 12° 55′ 10″ will be 60498 fathoms; with which and the above ratio, the computed degree at right angles to the meridian in the same latitude will be had 60858 fathoms, which exceeds the measured one by 110 fathom's nearly; so that we may infer from this, either that the earth is not an ellipsoid, or that this measurement is incorrect.

The more we investigate this interesting subject, and the more ample means we employ to ascertain the exact figure of the earth, the more seems to be wanting to satisfy our research; and if we feel reluctant in giving up the elliptic hypothesis, because it is consonant to that harmony and order with which we are familiar, the discord which these results indicate, afford by no means sufficient evidence to induce us to abandon that theory. The great nicety in making the pole-star observations is well understood, and it will be made more manifest in the case before us by increasing or diminishing the half sum of the angles with the meridians, reciprocally taken at Mullapunnabetta and Savendroog, by one second only,

when it will appear that a difference of nearly one hundred and fifty fathoms, in the perpendicular degree, will be occasioned thereby.

I AM fully aware of the delicacy necessary in taking these angles, and I am also aware that some eminent mathematicians consider the method of determining the difference of longitude by the convergency of meridians as insufficient in these low latitudes; yet I am of opinion that by repeating these observations whenever stations can be found, either in the same, or in different latitudes, the truth may ultimately be very nearly attained. I at one time had determined on increasing the number of observations at Mullapunnabetta, Savendroog and Yerracondah, on my return to the eastward; but when I was at Mullapunnabetta a second time, and had increased the number of pole-star observations there to eighteen, and had also taken several other angles between Savendroog and the referring lamp, and after all finding that the angle between the meridian and Savendroog was altered only 1 part of a second, I did not think it necessary to go to the other stations, particularly as the observations there had been made under the most favorable circumstances. It is, notwithstanding, desirable that many more measurements of the kind should be made, and that other methods should be tried for getting the length of a degree of longitude, particularly that of carrying a good time-keeper between two meridians at a known distance, a method which has been strongly recommended to me by the Astronomer Royal, and which I mean to put in practice in the course of my future operations. I had also devised another method by the instantaneous extinction of large blue lights fired at Savendroog, the times of which were to be noticed by observers at Mullapunnabetta and Yerracondah, the distance of whose meridians on a parallel of latitude passing through Savendroog being nearly 135 miles. The experiments were attempted, but the weather was so dull that the lights could scarcely be distinguished. There is besides a difficulty in fixing the precise moment of extinction; and even in the most favorable state of the atmosphere, when the lights may be distinctly seen with the naked eye at near seventy miles distance, to come within half a second

of the truth, would be as near as the eye is capable of, which is equal to 7"1/2 in an angle at the pole: but the mean of a great number of successful results might come very near the truth.

Vatory at Madras to Mangalore, by which easy means are offered to determine the length of a parallel of latitude subtended by two meridians nearly five degrees and a half distant from each other, it may be further suggested, whether a long course of corresponding observations made at Madras observatory and at another place on the Malabar coast, by the eclipses of the satellites, occultations of stars by the moon &c. might not afford another eligible method for determining the length of a degree of longitude.

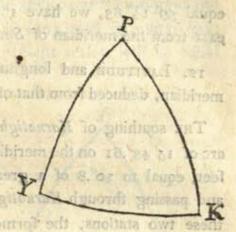
In short, the difficulty of obtaining this desideratum, and the important advantages to geography and physical science which must accrue therefrom, are such powerful incitements to a zealous prosecution of the inquirry, that I may venture an assurance of leaving nothing undone, which may come within the compass of my abilities, to give every possible satisfaction on the subject; and if my endeavours to throw some light on the path to future discovery be successful, I shall close the period of my labours with the grateful reflection, that, while employed in conducting a work of national utility, I shall have added my humble mite to the stock of general science.

mosther meshed by the instrumeness extinction of tree black lights fired another meshed by the instrumeness extinction of tree black lights fired at Smareburg, the times of which were to be never by closer to be about a warring at the fired and Sevended, the distance of whose meritains end a parallely of lexical passing through Sevendency being itself via times. The experiments were afternown, but the weather was so tell that the Leyus could sparrely be distinguished. There is besides a chilically in him the precise moment of extinction; and even in the most ferrorable time of the atmosphere, when the lights may be distinctly seen with the maked eye at near seventy miles distance, to come within hair a second

11. LATITUDE and longitude of Kylasghur.

LET Y be Yerracondah, K Kylasghur, and P the pole. Then in the spherical triangle PYK there are given YP=77°7'45".74, the co-latitude

of Yerracondah, YK = 46' 33".51, the oblique arc as computed on the spheroid; and the angle PYK = 92° 13' 46'.11, as observed at Yerracondah, to find PK, the co-latitude of Kylasghur, which by spherical computation will be had equal 77° 9' 38".7, and therefore the latitude equal



latitudes and therefore being an 12° 50' 21".s, with which latitude the azimuths being reduced, the polestar observations at Kylasghur will stand as follow:

Section of the last	Month. Apparent Pola Distance.	Latitude.	Azimuths.	the Pole-star and	Angle between the North Pole and Referring Lamp.
No. of Lot, No. of Lot, No.	Dec. S. 1° 43′ 54″ .74 7. 1 43 53 .82 12. 1 43 52 .84 13. 1 43 52 .5	(3)	1° 46′ 35″ .41 1 46 34 .51 1 46 33 .56 1 46 33 .46	3 28 57" 3 28 52 .4 3 28 55 .25 3 28 53 .5	1° 42′ 21″ .59 1 42 17 .89 1 42 21 469 1 42 20 .04
	Angle between the North Po Angle between the Referring	le and Refe Lamp and	Yerracondah,	a Styro edi e	1 49 20 .30 E. 89 17 57 .607
1	Angle between the North Po	le and Yen	racondah,		87 35 37 307 W

If the same angle be brought out by using the co-latitudes of Yerracondah and Kylasghur, and the observed angle at Yerracondah, between the N. pole and Kylasghur, it will be 87° 35' 37", very nearly the same as was observed. as there is reason to doubt the accuracy of that

THEN again, as the sine of either of the co-latitudes, is to the sine of the opposite angle, so is the sine of the oblique arc KY, to sine of the angle KPY, equal 47' 42".98, the difference of longitude; to which add the difference of longitude between *Terracondah* and *Savendroog*, equal 59' 14".83, we have 1° 46' 57".81 for the longitude of *Kylasghur*, east from the meridian of *Savendroog*.

12. LATITUDE and longitude of Karnatighur, and the position of its meridian, deduced from that of Kylasghur.

The southing of Karnatighur from Kylasghur is 95144 feet, equal to an arc of 15' 43".61 on the meridian of Kylasghur; and the easting is 1093.88 feet, equal to 10".8 of a great circle at right angles to the said meridian, and passing through Karnatighur. From the nearness of the meridians of these two stations, the former arc may be considered as the difference of latitude, and therefore being subtracted from the latitude of Kylasghur, we have 12° 34' 37".69 for the latitude of Karnatighur. Hence, by using the co-latitude 77° 25' 22".31, and the small perpendicular arc 10".8, we shall have the difference of longitude 11".06, and the convergency of the meridian of Karnatighur towards that of Kylasghur 2".46 nearly. The former of which being applied to the longitude of Kylasghur, will give 1° 47' 8".87 for the longitude of Karnatighur from the meridian of Savendroog, E.

Now the observed angle at Kylasghur, between the north pole and Karnatighur, was 179° 20′ 28″.83, whose supplement is 0° 39′ 31″.17, which will therefore be the angle at Karnatighur, between the north pole and the parallel to the meridian of Kylasghur; from which subtract the convergency, we get 0° 39′ 28″.71 for the angle between the north pole and Kylasghur, westerly; and this subtracted from 93° 28′ 42″.22, the angle formerly taken at Karnatighur, between Kylasghur and Carangooly, gives 92° 49′ 13″.51 for the angle between the north pole and Carangooly.

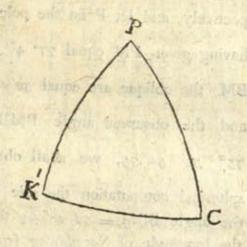
THE same angle taken at Karnatighur, in 1803, was 92° 49' 15".93, but as there is reason to doubt the accuracy of that angle, from reasons already

given, to which may perhaps be added the want of experience, I shall reject it and adopt the one now brought out for determining

13. The latitude and longitude of Carangooly Hill.

THE length of the arc comprehended by the stations at Karnatighur and Carangooly, as determined by the triangles in 1803, was 291196.9 feet, which, as an oblique arc, according to the present scales, will be equal 47' 56".21.

LET P be the pole, K' Karnatighur, and C Carangooly; and therefore K'C the oblique arc = 47 56".21. Then if (a) the observed angle at Carangooly, be made use of, (which must be accurate enough for this purpose) we have sine PK': sine \(\subseteq PCK' :: \) sine K'C: sine angle



K'PC equal 49' 2".9, the difference of longitude. Hence 1° 47' 8".87 + 49' 2".9 = 2° 36' 11".77, the longitude of Carangooly from the meridian of Savendroog.

And as sine angle PCK': sine K'P: sine \angle PK'C: sine PC = 77° 27′ 48″.2, the co-latitude of Carangooly, whose complement 12° 32′ 11″.8 is therefore the latitude.

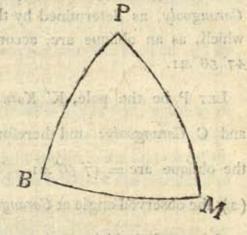
14. LATITUDE and longitude of Balroyndroog, with the position of its meridian.

As the atmosphere was so extremely dull when the pole-star observations were made at Balroyndroog, the angle between its meridian and

⁽a) As determined in 1803, equal 87 00 07 .54.

the station at Mullapunnabetta could not be taken, we must therefore depend altogether on computations made with the oblique arc, the latitude of Mullapunnabetta, and the angle at that station with the N. pole, and the station at Balroyndroog. The langth of the are comprehended by the

LET M and B be the stations at a P Mullapunnabetta and Balroyndroog respectively, and let P be the pole, then having given PM equal 77° 4' 54".41, BM the oblique arc equal 52' 42".12, and the observed angle PMB equal 75° 52' 54".95, we shall obtain by



spherical computation the side BP = 76° 52' 08".4 the co-latitude, and the angle BPM = 52' 28".94 the difference of longitude, which add to the longitude of Savendroog from Carangooly hill, and Mullapunnabetta from Savendroog, there will be 4° 29' 05".15, the longitude of Balroyndroog from Carangooly hill.

TAKING the latitude thus found for computing the azimuths, the pole-star observations at Balroyndroog will stand as follow:

1805 Month.	Apparent Polar Distance,	Latitude.	Azimuths.	Angle between the Pole-star and Referring lamp.	Angle between the N. Pole and Referring lamp.
Feb. 20 23 24 25 26 27 28	1 43 34 .82 1 43 35 .06 1 43 35 .33 1 43 35 .57 1 43 35 .80	15.07. 516	1° 46′ 21′′ .05 1 46 21 .73 1 46 21 .98 4 46 22 .25 1 46 22 .50 1 46 22 .74 1 46 22 .97	56° 46′ 43″ .50 56 46 43 .75 56 46 43 .25 56 46 43 56 46 44 .5 56 46 44 .25 56 46 43 .44	55° 00′ 22′.45 55 00 22 .02 55 00 21 .27 55 00 20 .75 55 00 22 55 00 21 .51 55 00 20 .44

15. REDUCTION of some principal places on the two coasts in latitude and longitude.

tude and	longi	tude.
d its parallels, and eridian,	Distances from Bal- royndroog on the	S. 116546 W, 116722 S. N. 206380 W, 98008 N. S. 139909 W, 166502 S. S. 55829 W, 268603 S. S. 55931 W, 400329 S. S. 69272 E, 331826 S. S. 15714 W, 463920 S. S. 25499 W, 502137 S.
TABLE 1. Containing the angles, with the Meridian of Balroyndroog and its parallels, and the distances of certain places on the Malabar voast from that Meridian, and from its perpendicular.	Bearings referred 2 Distances on the Bairoindroog. Perpendic. Meridian.	feet. feet. feet. feet. 7. 164945 116546 W. 116722 S. 91762 89834 W. 18714 N. 154990 23363 W. 49780 S. 126146 74080 E. 102102 S. 132113 10102 W. 131726 S. 149160 135 101 E. 63223 S. 157072 84986 W. 132094 S. 175847 43773 W. 170311 S.
ng the angles with t	Places computed. to the M	Bullamully, 44° 57° 26″ Mangalore, 78 13 58 Goompay Hill, 25 08 29 Backul, 212 35 Kunduddakamully, 35 57 46 Mount Dilli, 4 23 08 Taddiandamole, 64 55 19 Cannanore, 32 45 22 Tellicherry, 14 25 51
TABLE 1. Contains the dist	STATIONS AT	Balroyndroog, Balballamully, Balkundadakamully, M. Taddiandamole, Ca

Containing the angles, with the Meridian of Carangooly and its parallels, and the distances of certain places on the Coromandel coast from that Meridian,

	S S S S S S S S S S S S S S S S S S S	00
	E. 197002 E. 197505 W. 192406 E. 1977092 E. 193370 W. 203832 W. 203833	0000000
innum,	Distances gooly Perpendic. feet. 44105 E. 55111 W. 141065 E. 127009 E. 37296 W. 20146 W. 65890 W.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
200	Se on the Meridian. F feet. 157505 N. 12 59497 N. 14 59496 S. 15914 N. 18 15914 N. 18 15914 N. 18 15635 S. 28 83517 S. 6	,
,	WENERE WE	17.
cular.	Perp fee 4410 5511 9696 8290 8290 1715 1715 1715 2659	1 1000
rpendi	feet. Dists, 113759 92027 159141 83352 23207 87363	
and from its perpendicular.	Seriel Se	
and fro	Bearings to the Mer Mer Carang Carang Carang 117* 47 01" 291 114 20 58 27 57 04 16 15 0 00 18 12 20 28 17 38 45	
days dr. co	ode, ode, oil, George, y's House, Observatory, an Station, erry,	
2 1	Mallap Fort St. Mowber Moorata Moorata Pondich Cuddale	100
	Stations at Carangooly Hill, Mullapode Hill, Mowbrey's House, Permacoil Hill, Mooratan Station,	
	Sr Carang Mullaj Mowby Permac Mooral	

By table the 1st, Mangalore flag-staff is west from the meridian of Bal-royndroog 206380 feet, and south 98008 feet from the station; and these converted into arcs according to the above scales, will give 33'58" and 16'12" respectively, and the latter arc added to the co-latitude of Balroyn-droog (equal 76°52'8".4) gives 77°08'20" for the co-latitude of the point where a perpendicular from Mangalore will cut the meridian of Balroyn-droog at right angles. Then as Rad.: Cos. 77°8'20":: Cos. 39'58' (the perpendicular): 77°08'22", the co-latitude of Mangalore.

And again, as Tan. 33' 58": Sin. 77° 08' 20":: Rad.: Cot.: 34' 50", the difference of longitude between Balroyndroog and the flag-staff at Managalore.

By proceeding in the same manner with the other places on that coast, we shall have their latitudes, and their longitudes from the meridian of Balroyndroog as follow:

Names of Places.	Latitudes.	Longitudes from Balroyndroog.
Mangalore Flag-staff,	12° 51′ 38″ 12° 23° 32° 12° 01° 41° 11° 51° 11° 11° 44° 52°	0° 34′ 50″ W. 0 22′ 55 W. 0° 19′ 47 W. 0 02′ 58 W. 0 04′ 17 E.

By table 2d, the observatory at Madras is 127009 feet east, and 193370 feet north from the station at Carangooly, which converted into arcs give 20'54'.45 and 31'57'.78 respectively; which being applied to the meridian and its perpendicular, passing through the observatory, and computing spherically, as in the last case, we shall obtain 13° 04'8".7 for the latitude of the observatory, and 21'27'.81 for its longitude east from the meridian of Carangooly. And by pursuing the same method of calculation, we shall have have certain places on the Coromandel coast referred to the meridian of Carangooly as follow:

Names of Places.	Latitudes.	Longitudes from Carangooly.
Madras Observatory,	13° 04' 08" .7	0° 21′ 27″ .81E.
Fort St. George Church Steeple,	13 04 45	0 23 44 E.
Pondicherry Flag-staff, Cuddalore Flag-staff,	11 55 56 11 43 23	0 03 20 W. 0 06 48 W.

THE difference of longitude between the meridians of Carangooly and Balroyndroog, by Art. 14, is 4° 29' 15".15, to which add the longitudes of the different places from the respective meridians, as heretofore deduced, we shall have the difference of longitude of those places which lie nearly in the same parallels of latitude as follows:

Difference of longitude between the observatory and Mangalore, 5° 25' 23"

Church in Fort St. George and ditto, 5 27 45

Pondicherry and Cannanore, - - - 4 28 13

Cuddalore and Tellicherry, - - - - 4 18

HERE it may be proper to notice that in the requisite tables, the difference of longitude between Fort St. George and Mangalore is 5° 27' 25", within 20" of what is here given; but the difference of longitude between Cuddalore and Tellicherry is 4° 8' 42", differing no less than 9' 18" from the triangular measurement.

APPENDIX.

TABLE of LATITUDES and LONGITUDES of some of the principal places, as deduced from the operations in general.

Note. In the abbreviations H signifies hill; P pageda, and Dg. droog. In all pagedas the tower is meant unless otherwise specified; or if they are stations, the platform is generally the place where the instrument stood, and is mostly marked by a small mill-stone. All places having the asterisk (*) annexed to them are the stations of the large theodolite, and are distinguished either by platforms with large stones in the middle, having small circles inserted thereon; or if on a rock, the circle is inserted on the rock, and in both cases the centre of the circle denotes the point over which the plummet was suspended.

Names of Places,	Talle de	Longitu	ide from
Places,	Latitude.	Madras Obser.	Greenwich.
LLAMBADDY Fort,	12° 8′ 35″ N.	2° 30′ 25″ W	77° 46 5" E
Allasoor H.	13 9 42	2 38 0	77 38 30
AHCOOF H.	13 16 18	0 31 34	79 44 56
LLUMPARVA Fort,	19 16 42	0 14 5	80 2 25
MARATOOR Fort P.	12 55 23	3 18 55	76 57 85
MBOIGE Dg	13 23 37	2 14 48	78 4 42
MBOOR Dg	19 49 19	1 32 8	78 44 99
NCHITTY Dg.	19 35 23	2 21 45	77 54 45
ANKISCHERRY Dg.	19 40 27	2 10 3	78 5 27
INNICUL Fort P.	19 42 33	2 33 31	77 42 59
ARCOT FORT (Nabob's house).	19 54 14	0 54 57	79 21 33
IRNEE (Monument in the Fort).	12 40 19	0,57 58	79 18 32
Atcherawauk H. and P.	12 24 14	0 26 23	79 50 7
AUVULCONDAH,	13 7 40	1 1 54	79 14 36
BAERUL Fort,	19 23 32	5 13 28	75 3 2
Dailippee H	19 90 7	2 58 28	77 18 9
BAILOOR FORT P.	19 0 47	4 23 42	75 52 48
5. BALLAPOOR Eedgah,	13 18 24	2 43 13	77 26 17
DALROYN Dg.	13 7 51 .6	4 50 33	75 25 57
SANGALORE Palace,	10 57 94	2 40 45	77 35 45
SARCELORE Peak.	18 51 09	5 23 28	74 53 2
Sellagola (Great statue),	12 51 15	3 46 13	76 SO 17
DELLOOR FORT P.	10 58 58	3 31 26	76 45 4
BENKIPOOR Fort,	13 50 42	4 33 26	75 43 4

Names of Places.	Latitude.	Longita	ude from
Augusta Landstonia		Madras Obser.	Greenwich.
* Bettatipoor H. and P.	12° 27′ 14″ N.	4° 8′ 23′ W	76° 8′ 7″ E.
BHAVANY P.	11 25 45	2 34 19	77 42 11
Bodeemulia,	13 12 41	1 10 55	79 5 35
BODEELIMRAUZ Dg	12 26 17	2 7 13	78 9 17
Bolcondah Dg.	12 37 15	2 8 14	78 8 16
Bomanelly H. and P.	13 16 18	3 37 1	76 39 29
- Bonnairgottah,	12 48 43	2 40 41	77 35 49
* Booggargooda,	13 3 4	5 15 16	75 1 14
* Bullamully,	12 48 33	5 10 14	75 6 16
* Bullanaudgooda,	12 45 12	5 5 28	75 11 2
* BUNDHULLY Dg.	12 12 16	2 55 2	77 21 28
BUSMUNGY Dg.	13 44 24	3 12 57	77 3 33
CANANORE FORM FL. C. C.	13 5 41	3 4 47	77 11 43
CANANORE FORT, Flag Staff,	11 51 11	4 53 1	75. 23 29
* Carangooly H.	12 32 12	.0 21 28	79 55 2
CAUVERYPOORUM FORT,	11 54 43	2 29 36	77 46 54
CHALAMCOTTAH Large Tree,	19 54 15	0 47 18	79 29 12
CHARGIE De	13 26 50	2 7 36	78 8 54
CHARGUL Dg.	12 53 18	1 36 19	78 40 11
CHAYLOOR FORT,	13 26 37	3 21 1	76 55 29
* Checkul H.	13 19 16	2 56 52	77 17 38
Chendragherry Fort, * Chencaud,	12 27 53	5 15 13	75 1 17
CHENROYN Dg.	11 56 56 13 35 49	0 39 45	79 36 45
CHINGLEPET Fort Flag Staff,	12 41 59	3 2 43 0 16 12	77 13 45 80 0 18
CHINI Dg.	12 42 18	0 16 12	PO 04 44
CHINEROVEUTTUN,	12 54 9	3 51 53	78 34 11 76 28 37
Chittepet H.	12 27 58	0 51 37	79 24 53
Chittepet Mosque,	12 27 55	0 53 58	79 22 32
CHITTLE Dg. Flag Staff,	14 13 4	3 51 34	76 24 56
	13 13 .5	1 9 27	79 7 3
	13 55 17	3 8 56	77 7 32
CHUNGAMAH,	12 18 4	1 27 24	78 49 6
COLAR FORT P	13 8 20	2 6 49	78 49 41
	12 50 47	0 32 52	79 43 38
	12 50 56	0 18 51	79 57 37
* Coonun H.	12 5 20	0 34 19	79 42 18
Covelong Church,	12 47 36	0 0 5 E,	80 16 35
CUDDALORE Flag Staff,	11 43 23	0 28 16 W.	79 48 14
GURPAH Fort,	13 14 39	3 24 11	76.52 19
* Daesauneegooda,	13 15 46	4 6 34	76 9 56
Darampory Fort,	12 3 48	2 5 5	78 11 25
DENKANICOTTAH Fort,	12 31 53		77 48 57
DEONELLY Fort,	13 14 59	2 32 38	77 43 52
* Deorabetta,	12 37 32	2 37 36	77 38 54
DEVAROY Dg	13 22 25	3 2 28	77 14 2
" Dodagoomah,	12 59 59 1.9	2 37 40	77 88 50
Durrea Bahader Ghur,	10 00 10	5 34 14	74 42 16

Name of Division	Latitude	Longitude from			
Names of Places.	Latitude.	Madras Obser.	Greenwich.		
Ennore Tree,	13° 14′ 59″ N.	0° 4′42″ E.	80°91′ 12″ E.		
ERODE Fort S. E. Cavalier,		2 31 26 W.	77 45 4		
French Rock's Pillar,		3 33 24	76 43 6		
GINGEE Dg	12 15 18	0.51 19	79 25 11		
GOPAUL Dg		2 57 31	77 18 59		
GOODEEBUNDAH Dg		2 33 3	77 43 27		
* Goompay H		5 14 10	75 2 20		
GOONICUL Fort,		3 13 34	77 2 56		
Gooriattum P.		1 24 42	78 51 48		
GUNGANGHERRY Dg,		1 57 47.	78 18 43-		
GURRADAN Dg	13 28 54	4 0 47	76 15 45		
* Hallagamulla P		2 48 54	77 27 36		
* Hanandamulla,	THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SE	0 51 14	79 15 16		
Hassun,		4 9 42	76 6 48		
Hooly Dg		3 13 5-	77 3 25		
* Hunnabetta,	13 6 1	4 31 12	75 45 18		
HUNNAMUN Dg		4 19 38	75 56 52		
HURROOR FORT,		1 46 1	78 30 29		
Hyderghur,		5 15 27	75- 1- 3-		
JAINKUL Dg	- 13 54 35	3 59 50	76 16 40		
JEMALABAD Flag Staff,	- 13 1 34	4 57 46	75 18 44		
KARKUL EORT,	. 13 12 34	5 15 36	75 0 54		
* KARNATIGHUR,	12.34 38	1 10-31	79 5 59		
Kasragooda Fort,	12.29 36	5 16 3-	75 0 27		
KAUMUN Dg		2 58 44	77 17 46		
Kaup Battery,		5 31 21	74 45 9		
KISTNAGHERRY,		2 2 9	78 14 21		
KOADICONDAH Dg	13 49 49	2 28 24	77 48 6		
Kongoondy Dg	- 12 46 3	1 49 0	78 27 30		
KOOMLAH FORT,	- 12 36 5	5 19 6	74 57 24		
KOONDAPOOR Fort,	- 13 38-10	5 34 11	74 42 19		
* Koondhully H	- 12 39 33	4 29 21	75.47 9		
* Koondoorbetta,	- 12 51 16	4 18 19	75 58 11		
KOPA Dg	- 13 32 3	4 56 5	75 20 25		
Kowlas Dg	- 13 43 5	5 8 27	75 8 3		
* Kuddapoonabetta,	- 12 55 37	5 22 29	74 54 1		
Kul Dg	- 13 38 47	4 20 56	75 55 82		
* Kulkolah,	- 18 25 14	2 39 9	77 37 21		
* Kumbetarenemulla,	- 11 55 31	2 58 57	77 17 33		
* Kunduddakamully,	- 12 23 28	5 1 39	77 14 51		
* Kunnoor H		1 2 59	79 13 39		
* Kylasghur,	- 12 50 21 .3		79 5 48		
MACKLY Dg.	- 13 25 58	2 45 4	77 31 26		
MADRANTICUM P.		0 43 12	79 33 18		
MADRAS (Observatory),	- 13 4 8 .7	0 00 00	80 16 30		
MAILLACHERRY Dg	- 12 16 6	0 52 52	79 23 58		
MAILCOTTAH H. and P	- 19 89 57	3 36 9	76 40 21		
Манавали Dg	- 12 58 34	1 4 19 40	75 56 50		

Names of Places.	Latitude.	Longit	ude from
- Windshift Constitution	Januar.	Madras Obser.	Greenwich.
* Mullapode H	12°54 56" N.	0° 14′ 1′W.	80° 2' 29" E.
MALLAVILLY FORT (S. W. Cavalier)	12 23 0	3 11 54	77 4 36
MANGALORE Fort (Flag Staff),	12 51 38	5 25 23	75 51 7
intanhoor,	13 0 59	0 18 51	79 57 59
Marakerra (Tree),	12 26 20	4 \$0 46	75 45 15
Mandashie Dg. Mosque	12 44 44	0 34 59	79 41 31
Meejar Hill,	13 49 54	3 3 34 5 19 21	77 19 56
Minchicut Dg	13 27 47	5 19 21 3 S 16	74 57 9 77 13 14
MOODABIDDERRY P	13 4 24	5 15 58	77 13 14
Mooduwaddie Dg	12 40 57	2 48 38	77 27 52
MOOLKY Fort,	13 5 12	5 28 13.	79 48 17
MONJERABAD,	12 55 4	4 29 51	75 46 59
* Moratan,	11 58 30	0 27 42	79 48 48
* Mount Dilli,	12 1 41 13 0 20	5 3 20 0 S IS	75 13 10
MUDDUKSERAH Dg	13 56 41	W PARTY TOWNER AND	80 13 12
MUDGHERRY D	13 59 7	2 59 0 3 3 11	77 17 30 77 13 19
Muglee H. (Stone),	13 9 59	1 25 23	78 51 8
MULLANAIG Dg. P	12 44 43	1 39 2	78 37 28
* Mullapunnabetta,	12 55 6	3 58 4	76 18 26
MULWAGGLE Dg	13 10 14	1 59 6	78 23 24
* Mungot H	13 0 31	0 8 57	80 7 33
Muntapum N. of Bangalore,	13 0 45	2 40 13 0 37 55	77 86 17
MYSOOR FORT (High Cavalier),	12 7 54	0 37 55 3 35 59	79 38 55 76 40 31
* Mysoor H	12 16 40.5	3 35 2	76 40 31 76 41 28
Naggerry Nose,	13 22 50	0 39 13	79 37 17
NAGMUNGATUM Fort,	19 49 11	3 30 1	77 46 29
NARRAIN Dg	12 42 45	3 40 7	76 36 23
NARRICUT Dg	13 7 54	1 3 58	79 12 32
Nandkaunee,	10 55 57	2 38 10	77 58 20
Nedigul Dg. (Muntapum),	14 9 31 13 14 50	3 10 21	77 6 9
NUGGUR (BEDNORE) Flag Staff,	13 49 10	5 13 27	77 14 13 75 S S
* NUNDY Dg	18 22 12.5	2 34 1	75 S S 77 22 29
NUNJENGODE P	12 7 9	3 33 43	76 42 47
ODEA Dg :	12 36 55	2 19 20	77 57 10
Oosscotta (Eedgah),	13 4 21	2 28 13	77 48 17
Oossoon H. and P.	12 43 53	2 24 49	77 51 41
OOTHE DO	12 36 55	0 29 32	79 46 58
OYMUNGGUL Fort,	14 5 34	3 7 47	77 8 43
PATTICONDAH P.	12 54 45	3 43 15 1 18 46	76 33 15 78 57 41
* Patticondah,	13 10 25	1 36 23	78 40 7
* Paudree,	13 19 41.3	0 34 8	79 42 22
PAUGHUR,	14 6 19	2 58 34	77 17 56
* Paulamulla,	11 41 39	2 31 0 1	77 45 30
	W	THE PARTY OF THE PARTY.	THE PARTY OF THE PARTY.

THE PERSON NAMED IN COLUMN	Marie I and a second	Longita	ide from
Names of Ptaces.	Latitude.	Madras Obser.	Greenwich.
EDNAIG Dg	12°57′ 33″ N	1° 38′ 4″W.	78° 38′ 26″ E
ercondan Tree,	14 4 13	2 40 2	77 36 28
ENNAGRA Fort,	12 7 45	2 20 58	77 55 32
PERMACOIL H	12 11 58	0 30 45	79 45 45
Perambauk H	12 53 7	0 3 9	80 13 21
Pilloor H	13 13 59	6 53 50	79 22 40
ONDICHERRY Flag Staff,		0 24 48	79 51 42
Ponnassmulla,	12 8 47	2 36 27	77 40 3
Poonauk H	13 10 2	0 39 8	79 37 22
OONAMALLEE Flag Staff,	13 2 37	0 8 16	80 8 14
ULLICATE Flag Staff,	13 25 9	0 4 13 E.	80 20 43
CAMGHERRY Dg	13 56 53	4 8 19 W.	76 8 11
CAVALNELLORE Dg	11 58 0	1 19 32	78 56 58
RIOJEES CHOULTRY,	12 52 25	0 29 54	79 46 36
Runganelly H. and P	13 39 55	3 25 23	76 51 7
Rungaswamy H. and P	13 2 3	3 16 56	76 59 34
RUNGYAN Dg	13 55 21	4 19 31	75 56 59
RUNGYAN Dg	13 54 14	4 9 30	76 7 0
LYACOTTAH Flag Staff,	12 31 16	2 12 54	78 3 36
RYMAN Dg	13 21 17	2 14 37	78 1 53
ADRAS Flag Staff,	12 31 34	0 4 59	80 11 31
T. GEORGE (FORT) Church steep		0 2 22 E.	80 18 52
ANKERRY Dg. Bungaloe on the top.	11 28 49	2 23 40 W.	77 52 50
ATTIAGUL Fort,	12 14 38	3 6 32	76 9 58
ATTIMUNGALUM Fort Bungaloe,	A PERSONAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF	3 0 15	77 16 15
AUTGHUR Building on the top,	12 57 49	1 90 28	78 46 2
SAVEN Dg. Station near the Muntap	oum 12 55 10 .2	4 2 57 40	77 18 50
BERAH FORT Flag Staff,	13 44 39	3-20-29	76 56 1
BERINGAPATAM P	12 25 29	3 34 38	76 41 52
EVEN Ps. P. on the Rock,	12 30 50	0 3 21	80 13 9
ha Dg	14 9 40	2 44 58	77 31 32
HEEMOGA Fort	13 03 33	4-40-25	75 36 5
Shennimulla,	11 9 21	2 39 58	77 36 39
SHEVAGUNGA G. P	15 10 9	3 1 51	77 14 39
SHEVERAM H. Choultry,	12 46 17	0 22 45	79 53 45
SHOLANGHUR G. P	13 5 20	0.49.49	79 26 41
SOOBRAMANEE H. old P. (G. Mounts	nin), 12 39 44	4 34 11	75 42 19
SOOLAGHERRY Dg	12 40 0	2 13 57	78 2 53
SOOLOOPGHERRY Dg	19 4 34	1 12 59	79 3 31
STREE PERMATOOR P	12 58 7	0 17 57	79 58 33
* Taddiandamole,	12 13 3	4 38 52	Life College C
* Tandray	1 13 8 5	0 10 46	80 5 44 78 36 48
TATTACUTTOO Dg	12 24 5	1 39 42	75 30 14
TELLACHERRY Fort (Flag Staff),	11 44 52	4 46 16	79 36 25
• Telloor H	12 31 31	0 40 5	78 25 16
TENGRICOTTA Fort,	12 0 44	1 51 14 2 53 49	77 22 41
# 'Allesten was to Ho	1 1 91 45	- A (1.7 47)	11 WW IL

TABLE-continued.

Names of Places.	Latitude.	Longitude from		
LEADING BIGG	Liniuac.	Madras Obser.	Greenwich.	
TIMMAPOOR Dg	12° 24′ 14″ N.	1º 2'24"W.	79°14′ 8″ E.	
Tirchunkode H. and P	11 99 99	2 20 59	77 55 31	
TIREKEARA Fort,	13 42 34	4 26 20	75 50 10	
Terretten coonum H. and P	12 36 37	0 11 17	80 5 13	
* Tirtapully H.	13 2 25	2 21 55	77 54 35	
TRINOMALLEE H	12 14 30	1 11 32	79 4 58	
Trumpagan Fast N. E.	12 13 53	1 10 46	79 5 44	
Trippasoon Fort N. Face,	13 8 36	0 22 22	79 54 8	
* Trivandeporum,		0 32 10	79 44 20	
Undar Ghaut (Peak),	13 8 37	0 20 19	79 56 11	
Unganamulla Dg.	13 20 32 12 38 4	5 10 45	75 5 45	
* Ungargooda,	12 38 4	1 58 49 5 13 49	78 17 41	
Urrumbaucum H.	13 1 13	5 13 42 0 23 53	75 2 48 79 52 37	
VAIPOOR DE.	19 8 44	1 25 24	79 52 37 78 51 6	
VANDIWASH II, and P.	19 32 7	0 38 49	79 37 41	
	19 80 89	0 38 47	79 37 43	
VANIAMBADDY,	12 40 19	1 38 28	78 37 2	
Vaniam Baddy,	12 12 31	4 26 47	75 49 43	
VELLORE Dg.	12 54 59	1. 5 45	79 10 45	
VELLORE FURT G. P.	12 55 20	1 7 15	79 9 15	
v chengcaud,	12 20 41	0 18 47	79 57 13	
VENKETTYGHERRY Fort,	13 0 2	1 45 50	78 30 40	
VERABUD R Dg	12 23 20	2 8 41	78 7 49	
VILLANOOR P.	11 54 44	0 29 35	79 46 55	
WALLAJABAD Commanding Officer's house,	12 47 56	0 25 25	79 51 5	
WALLAJAPETT Mosque, WHOLY HONOOR FORT,	12 55 13	0 54 8	79 22 22	
* Womootoor H.	13 59 7 12 4 55	4 34 22 3 22 1	75 42 8	
* Woorachmulla,	12 4 55 11 28 37	3 22 1 2 33 43	76 54 29 77 42 47	
* Wooritty H.	12 22 41	0 34 16	77 42 47 79 42 14	
Woos De.	12 18 30	5 09 48	75 06 42	
Wurrelcondah H. and P.	13 38 12	2 28 23	75 48 07	
W Uss Dg.	13 47 23	3 58	76 18 30	
I acimatoor H.	11 12 06	2 30 12	77 46 18	
Y AENIKUL Dg.	14 00 58	3 27 16	76 49 14	
Yamagherry H. and P.	12 48 46	3 12 19	77 4 11	
I EGGOONDAH Dg.	13 16 41	2 59 46	77 16 44	
Yerracondah (Mysoor),	12 52 14 .26	1 58 25	78 18 05	
Yerracondah (Ceded Districts),	13.54 59	2 36 05	77 40 25	

ELEVATIONS and Depressions, contained Arcs, terrestrial Refractions, together with the heights above the level of the sea, of all the principal Stations.

1. STATIONS lying in the nearest direction between the two seas, commencing with the S. end of the base near St. Thomas' Mount, whose perpendicular height above the low water mark is 18.7 feet.

			4.5	10.	Elevations above th	ie sea.
STATIONS AT	Stations Observed.	Apparent E & D	Cont.	Refrac.	year reger and	Heights
7 2 1 10 1		1. 10/ 07/ID			- Carl Cambridge	feet.
S. end of the Base, -	Perumbauk Hill, S. end of the Base,	1 46 25 E. 1 47 25 D.	£ 1'21"	TF	Perumbauk,	272.9
Perumbauk, Mullapode,	Mullapode, Perumbauk,	0 06 18 E. 0 15 40 D.	£ 10. 41	1	Mullapode,	481.2
Muliapode,	Carangooly Hill,	0 11 34 D.	23 51	1	Carangooly,	434.3
Carangooly,	Wooritty Hill,	0 09 20 D. 0 02 17 D.	15 39		Wooritty,	552.7
Wooritty Hill,	Carangooly Hill,	0 10 25 D. 0 08 36 D.	3	1	Permacoil,	ara V
Permacoil Hill,	Woorifty Hill,	0 01 38 D.	§ 11 14		The second second	BY F
Maillacherry,	Maillacherry,	0 26 47 D.	321-00	1-0	Maillacherry,	1140.8
Maillacherry,	Karnatighus,		10 to 50 1 1 50 2 1	1 1 6	Karnatighur,	3204.0
Karnatighur, Kylasghur,	Kylasghur,	0 23 92 D.	2 15 44	1	Kylasghur,	2766.2
Kylasghur,	Yerracondah,	0 12 53 D.	216 89	1	Yerracondah,	3396.9
Yerracondah,		0 17 55 D	657.50	15.	Savendroog,	200
Savendroog,			-3	100	Mullapunnabetta, -	HISKUI (M.
Mullapunnabetta, Mullapunnabetta,	Savendroog,	.10 19 41 D		100	Constant of the second second	HELD SEC
Koondhully Hill,	Mullapunnabetta,	. 0 30 36 D	. 502 14	10	Koondhully,	4366.3
Koondhully Hill,	Koondhully,	0 31 46 E	. 540 00	- 17	Bullamully,	774.5
Bullamully	Kudapoonabefta, -	0 25 08 D 0 14 15 E		71	Kudapoonabetta, -	- 918.7
Kudapoonabetta, .		0 35 37 D	. 2010	1	Eedgah Station,	- 146.7
Eedgah Station,	. Sta" on the Beach,	. 0 58 53 D			Station on the Beach	1
And the second s	Eedgah Station,	Andrew Market Control	19	-	45	OL COMPANY
						-
			Diffe	renc	e or error,	1 0.0

2. Stations not lying in the nearest direction between the two seas, and commencing from Kylasghur.

27		ingro ingly	305	-	The second second second
STATIONS AT	Stations Observed.	Apparent	Cont. Arcs.	Refrac.	Elevations above the sea.
Company of the Company		E & D	24	Re	Stations. Heights
Yerracondah,	Patticondah,	0° 21′ 29″D.	2 200	LIST.	feet.
Patticondah,	Yerracondah,	0 3 11 D	(20 D	7.0	Patticondah, 2942.7
Patticondah,	Patticondah.	0 40 25 D. 0 18 34 E	24 53	10	Bodeemulla, 1646.6
Yerracondah,	Rymandroog,	0 0 39 D.	3	1000	College Colleg
Rymandroog,	Yerracondah,	0 29 9 D.	\$ 33 4	20	Rymandroog, 1226.8
Nundydroog,	Nundydroog,	0 10 26 E. 0 27 19 D.	18 54	Ty	Nundydroog, 4856.8
Nundydroog,	Devarovdroog.	0 20 56 D	5	1267	The state of the s
Devaroydroog, Yerracondah,	Nundydroog,	0 6 35 E.		3.2	Devaroydroog, 3940.2
Tritapully Hill,	Yerracondah.	0 6 30 D		益	Tirtapully, 3182.9
Tirtapully Hill.	Bonnaircottah	m 7 16 D	8	Pin	The same of the sa
Bonnairgottah,	S. End of the Base	0 13 20 D.	1 The Carrie	FF	Bonnairgottah, 3305.1
D. thu of the base,	Boanairgouah.	10 18 49 E	-6 - 6 ET	30	S. end of Base, 3023.6
avendroog,	Bundhullydroom, 1-	0 15 41 D	5 (3 (4)	187	Bundhullydroog, 4254.5
Bundhully,	Ponnassmulla.	0 17 18 E.	13	1	brough a war of the wealer there will
Ponnassmulia,	Deorabetta,	0.42 45 D	28 47	17	Ponnassmulla, 4928.3
Ponnassmulla.	Panlamalla (O 11 175 TA	£ 27 40		Paulamulla, 4958.8
Paulamulia, Paulamulia, Wagazahmalia	Woorachmulla,	2 34 47 D	3	100	CONTRACTOR OF THE PARTY OF THE
vi ooraciinana,	rautamuna,	2 22 42 10	\$ 13 18	I.	Woorachmulla, 1472
Boanuirgottah, Deorabetta,	Bonnaircottal	0 0 0	£ 11 35	1	Deorabetta, 3408
Woorachmalia,	Shennimulla,	0 0 6 D	3 9	100	ALL CONTRACTOR OF THE PARTY OF
Shennimulia,	Woorachmulla	0 17 58 1)	\$20 7	10	Shennimulla, 1788.6
Shennimulla, N.W.end of the Ba.	N. W. end of Base,	0 48 19 D.	€ 9 21	100	N.W.end of Base, - 1060.3
onennumuma,	Fuchapolliam	0 48 52 D	3	1.15	Committee of the same of the s
rucha politam,	Shennimulla,	0 40 90 1	\$ 9.57	14	Puchapolliam, 1010.4
N. W. end of the Base, S. E. end of the Base,	W W end of Baco	0 10 10 1	\$ 5 19	1	S. E. end of Base, . 925.5
Donnairgollah.	Dodagoontah,	0 18 10 D	11 40		Dodagoontah, 3037.9
Tirtapully Hill,	Allusony Hill	0 1 40 0	£ 17 16		Allasoor Hill, 3380.6
Allasoor Hill,	Kulkotah,	0 14 58 D. 0 6 17 D	3	33	Attassor 1111, 3380.6
Kulkotah,	Allasoor Hill,	0 8 11 D.	\$ 15 34	2 2	Kulkotah, 3406.6
Yerracondah.	Kulkotah	0 23 45 D.	£ 29 54	1	Yerracondah, 2848
Yerracondah,	Bomasundrum,	0 46 2 D	3		
Yerracondah, Bomasundrum,	Yerracondah,	0 36 19 E.	\$11 9	16	Bomasundrum, 2037.7
Yerracondah,	Yerracondah	0 6 9 D.	24 34	1	Paughur, 3059.6
Savendroog,	Chectkul,	0 26 33 D	94 7	17	Cheetkul, 3529.3
MILE N.			~ .	Ty	Опесташ, 10029.3

TABLE-continued. .

STATIONS AT	Stations Observed.	Apparent E". & D'.	Comt. Arcs.	Refrac.	Elevations above the sea.	
					Stations.	Heights
Cheetkul Hill, Bailippee,	Bailippee,Cheetkul,	0° 25′ 34″D. 0 6 56 E.	} 19' 52"	tr	Bailippee,	feet - 2760.6
Bundhully, Kumbetarenemulla,	Kumbetarene,	0 3 26 E.	\$ 36 56	1 1 5	Kumbetarine,	- 5548.6
Bundbully, Mysoor Hill,	Mysoor Hill,	0 29 27 D.	\$ 39 21	i'r	Mysoor Hill,	- 3446.6
Mysoor Hill, Bettatipoor,	Bettatipoor,	0 0 11 D.	£ 34 14	17	Bettatipoor,	- 4349.7
Mullapunnabetta, Bettatipoor Hill,	Bettatipoor Hill, Mullapunnabetta,	0 5 6 E.	29 37	16	Bettatipoor,	- 4347.3
Mullapunnabetta,	Bomanelly,	0 18 52 D.	1 > 231 /311	30	Bomanelly,	- 3142.3
Bomanelly, Daesaunecgooda,	Daesauneegooda, Bomanelly,	0 0 6 E.	\$ 28 46	To	Daesauneegooda, -	- 3804.1
Daesauneegooda, Hannabetta,	Hannabetta, Daesauneegooda,	0 13 30 D.	\$ 25 54	17	Hannabetta,	-3711.1
Mullapunnabetta,	Balroyndroog, Mullapunnabetta, .	0 7 3 D.	\$52 42	14	Balroyndroog,	- 4998.9
Bettatipoor, Taddiandamole,	Taddiandamole, Bettatipoor,		502 00	100	Taddiandamole, -	-
Taddiandamole, Kunduddakamully,	Mount Dilli,	1 56 5 D. 1 17 19 E.	26 27 24 34	17	Mount Dilli, Kunduddakamully	- 804,7 , 1856.2
Kunduddakamully, Backul,	Backul, Kunduddakamully,		} 11 33	1 10	Backul,	- 86.7
Bullamully, Kunnoor Hill,	Kunnoor Hill,		311 40		Kunnoor,	-
Koondhully,	Soobramanee, Koondoor Hill,		4 52	1000	Soobramanee, Koondoor Hill,	TANTON S
KoondoorHill, Meejar Hill,	Koondhully,	0 11 25 E. 0 23 31 D.	9 52	1000	Meejar Hill,	THE RESIDENCE
Meejar Hill, Booggargooda,	Booggargooda, Meejar Hill,	0 2 23 D		1 27	Booggargooda,	- 654.9
Station on the Beach,	Kooliebogooda, Station on the Beach	0 14 59 E.		14	Kooliebogooda,	- 200.5

TEAUS AND THE PLANT

An Account of the Male Plant, which furnishes the Medicine generally called COLUMBO, or COLOMBA Root.

BY DOCTOR ANDREW BERRY,

Member of the Medical Board of Fort St. George.

KALUMB of the Africans. COLOMBA, or COLUMBO of the Shops.

It is spelt Kalumbo by the Portuguese, in whose language the o is mute, and from this the name originated, by which this valuable root is known in Europe. It is a staple export of the Portuguese from Mozambique, and from the quantity exported, it is remarkable that the place of its growth, should have been so long unknown or doubtful to the rest of Europe.

It is never cultivated, but grows naturally, and in abundance, in the thick forests, that are said to cover the coast about Oibo, and Mozambique, and inland about 15 or 20 miles. The roots are dug up in the month of March, the dry season; or when the natives are not employed in agriculture; not the original root, which is perennial, but offsets from its base, that are of sufficient size, yet not so old as to be full of sibres, which render it unsit for commerce.

This root is in high estimation among all the Africans, even far removed from Mozimbique, for the cure of dysentery, which is frequent among them; for venereals; for all complaints of long standing; in powder for the cure of ulcers, and as a remedy for almost every disorder.

Soon after it is dug up, the root is cut into slices, strung on cords, and hung up to dry in the shade. It is deemed merchantable, when, on exposure to the sun, it breaks short; and of a bad quality when it is soft, or black.

I AM indebted for the above account of the columbo root, to Mons. FORTIN; who, when at Mozambique, purchasing it as an article of trade, procured an entire offset from the main root, of a larger fize than usual; which he brought with him to Madras, in September 1805; and prefented it to Doctor James Anderson, the Physician General; who confidered it a valuable present to himself, and a great acquisition to India.

This root was cylindrical, fomewhat flattened on the opposite sides; about 15 inches in length, a part being broken off; and between 3 and 4 inches in diameter; outwardly the common colour of columbo, but on breaking the surface, which is covered by a thin, tender, brownish pellicle, of a fine yellow.

The root being fucculent, and heavy, I planted it horizontally in a large box, filled with garden mould, where, in about a fortnight, it shot out two stems from the end that had been broken off from the parent root, but from not being vigorous, no slowers were then produced; and in about six months, from the time it had been planted, the stems withered down to the ground.

THE root was then carefully taken up, which was not altered in fize, or appearance, but from the end opposite to where the stems had shot out several sufform roots, or sessible tubers, had grown, as represented in the accompanying drawing. (Fig.2.) These had evidently suffered from con-

finement in the box; none of the roots were then separated, and the whole was deposited in a cool room, and covered with moist sand; where in about two months, the old root began again to throw out several buds from the same end as before. It was now planted in the ground, when one more vigorous shoot, which grew rapidly, soon destroyed the others; and in a month this shoot produced male slowers only, nor after the strictest search, could any other be found on the plant, so that the genus is as yet uncertain.

This stem, like the former, withered in six months, when the roots were dug up, and found considerably larger, but not much altered in shape, nor had any of them attained a size to be compared with the original. There was only the addition of one new lateral root or branch, from this second year's growth. As it was supposed that these roots would now vegetate, they were detached; which has been unfortunate, as several months have now elapsed, and no buds have formed: they are however still very fresh, and may yet grow. From this it appears that only large roots are fit for planting out.

From the male flowers, and habit of the plant, the columbo feems to belong to the natural order of Sarmentaceae Linn, or Menisperma of Jussieu. The following description may help to decide.

PLANTA Herbacea.

RADEX perennis, ramosa; rami fusiformes.

CAULIS annuus, post sex, aut septem menses marcescens, volubilis, simplex, teres, pilosus, crassitudine pennæ.

Folia alterna, petiolata, semipedalia et majora, subrotunda, quinqueloba, quinquenervia; lobis integerrimis, acuminatis.

Petroli teretes, pilosi, basi reflexi, folio paulo breviores.

adi ana Banangal and Masculi Flores, a two same and and an analy

RACEMI axillares, solitarii, compositi, pilosi, folio breviores. Pedunculi partiales alterni, floribus sessilibus.

BRACTEE lanceolate, ciliate, decidue.

CALYX Perianthium hexaphyllum; foliolis æqualibus, tribus exterioribus, tribus interioribus; oblongis, obtusis, glabris.

COROLLA hexapetala, minuta, Petala cuneato-oblonga, concava, carnosa, obtusa, stamina ambientia.

STAMINA, Filamenta sex, corolla paulo longiora. Antheræ quadrilobæ, quadriloculares. Pistillum nullum.

EXPLANATION OF THE FIGURES.

- Fig. 1. THE extremity of the shoot that slowered in 1807, rather smaller than the natural size.
 - 2. The whole root, about one third of the natural fize only:
 - 3. One of the bracker.
- 4. The underfide of one of the flowers.
 - 5. The upperfide of the same. These three are magnified.
- 6. One of the petals more magnified than the last three.
- 7. The underfide of one of the stamina, in the enlarged apex of which the four polliniferous pits are seen.

PLANCE Merliances.

which is the common and the common of the co

Janian. In lollowing defertion one help to decide.

On SANSCRIT and PRACRIT POETRY.

BY HENRY THOMAS COLEBROOKE, Esq.

THE design of the present essay is not an enumeration of the poetical compositions current among the *Hindus*, nor an examination of their poetry by maxims of criticism recognized in *Europe*; or by rules of composition taught in their own treatises of rhetorick; but to exhibit the laws of versisication, together with brief notices of the most celebrated poems in which these have been exemplified.

An inquiry into the profody of the ancient and learned language of India will not be deemed an unnecessary introduction to the extracts from Indian poems, which may be occasionally inserted in the supplementary volumes of Asiatick Researches: and our transactions record more than one instance of the aid which was derived from a knowledge of Sanscrit profody, in decyphering passages rendered obscure by the obsoleteness of the character, or by the inaccuracy of the transcripts.*

It will be found similarly useful by every person who studies that language; since manuscripts are in general grossly incorrect; and a familiarity with the metre will frequently assist the reader in restoring the text where it has been corrupted. Even to those, who are unacquainted with the language, a concise explanation of the Indian system of prosody may be curious, since the artisice of its construction is peculiar, and not

^{*} Vol. I. p. 279. Vol. II. p. 389.

devoid of ingenuity: and the profody of Sanscrit will be found to be richer than that of any other known language, in variations of metre, regulated either by quantity or by number of fyllables, both with and without rhyme, and fubject to laws imposing in some instances rigid-restrictions, in others allowing ample latitude. I am prompted by these considerations to undertake the explanation of that system, premising a few remarks on the original works in which it is taught, and adding notices of the poems from which examples are selected.

The rules of profody are contained in Sútras or brief aphorisms, the reputed author of which is Pingalana'Ga, a fabulous being, reprefented by mythologists in the shape of a serpent; and the same, who, under the title of Patanjali, is the supposed author of the Mahábháshya, or great commentary on grammar, and also of the text of the Yóga s'ástra;* and to whom likewise the text or the commentary of the Joótish annexed to the Védas,† appears to be attributed. The aphorisms of Pingala'cha'ra, as he is sometimes called, on the profody of Sanscrit (exclusive of the rules in Prácrit likewise ascribed to him), are collected into eight books, the first of which allots names, or rather literal marks, to seet consisting of one, two or three syllables. The second book teaches the manner, in which passages of the Védas are measured. The third explains the variations in the subdivision of the couplet and stanza. The sourth treats of profane poetry, and especially of verses, in which the number of syllables, or their quantity, is not

^{*} Or Sanc'bya system of philosophy; distinguished from that of CAPILA.

[†] In the fubscription to the only copy of this commentary, which I have seen, it is ascribed to S'E'SHANAGA: but, in the body of the work, the commentator calls himself So'MA CARA,

has been called monoschemastic, or uniform, because the same seet recur invariably in the same places. The eighth and last book serves as an appendix to the whole, and contains rules for computing all the possible combinations of long and short syllables in verses of any length.

This author cites earlier writers on profody, whose works appear to have been lost: such as SAITAVA, CRAUSHTICA, TA'NDIN and other ancient sages, YA'SCA, CA'S'YAPA &c.

PINGALA'S text has been interpreted by various commentators; and, among others, by Hela'yud'ha bhat't'a, author of an excellent gloss entitled Milla sanjíviní.* It is the work on which I have chiefly relied. A more modern commentary, or rather a paraphrase in verse, by Na'-RA'YAN'A BHAT'T'A TA'RA', under the title of Viittócti ratna, presents the singularity of being interpreted throughout in a double sense, by the author himself, in a surther gloss entitled Paricshá.

THE Agnipurán'a is quoted for a complete system of prosody,† founded apparently on PINGALA's aphorisms; but which serves to correct or to supply the text in many places; and which is accordingly used for that purpose by commentators. Original treatises likewise have been composed by various authors:‡ and among others by the celebrated poet

I possess three copies of it; two of which are apparently ancient: but they have no dates.

[†] It is stated by the authors, who quote it, (Na'RA'YAN'A BHAT'T'A and others,) to be an extract from the Agni puran'a: but I have not been able to verify its place in that Puran'a.

[‡] Such are the Vān'ibhūshan'a, Vritta-derpan'a, Vritta-caumudi, and Vritta-retnūcara, with the Ch'handō-manjari, Ch'handō-mūrtanda, Ch'handō-mālū, Ch'handō-niviti, Ch'handō-gōvinda, and several tracts under the title of Vritta-muchāvali, besides treatises included in works one

CA'LIDA'SA. In a short treatise entitled Sruta bod'ha, this poet teaches the laws of versification in the very metre to which they relate: and has thus united the example with the precept. The same mode has been also practised by many other writers on prosody; and, in particular, by PINGALA'S commentator NA'RA'YAN'A BHAT'T'A; and by the authors of the Vritta Retnácara and Vritta derpana.

CA'LIDA'S A'S S'ruta bód'ha exhibits only the most common sorts of metre, and is sounded on PINGALA'S Prácrit rules of prosody; as has been remarked by one of the commentators* on the Vritta Retnácara.

The rules, generally cited under the title of Prácrit Pingala, have been explained in a metrical paraphrase, teaching the construction of each species of metre in a stanza of the same measure, and subjoining select examples. This Prácrit paraphrase, entitled Pingala vritti, is quoted under the name of Hammi'ra, the who is celebrated in more than one passage given as examples of metre: and who probably patronised the author. It has been imitated in a modern Sanscrit treatise on Prácrit prosody entitled Vritta muctávalí; the and has been copiously explained in a Sanscrit commentary named Pingala pracása.

other subjects. For example VARA HAMIHIRA's system of astrology, which contains a chapter on profody.

The Vritta-reinacara of Ce'Da'Ra BHAT'T'A, with its commentaries by DIVA'CARA BHAT'T'A, NA'RA'YAN'A BHAT'T'A and HARI-BHA'SCARA, has been the most consulted for the present treatise. The Vritta-derpan'a, which relates chiefly to Pracrit prosody, has been also much employed.

DIVA CARA BHAT'T'A.

[†] In the commentary on the Vrittelli-ratna.

[†] The author Durga' Datta was patronifed by the Hindupati princes of Pundelc'hand. The examples, which like the text are Sanscrit in Pracrit measure, are in praise of these chieftains.

By VIS WARAT'HA.

THOUGH relative to Prácrit profody, the rules are applicable, for the most part, to Sanscrit profody also: since the laws of versification in both languages are nearly the same.

THE Prácrit, here meant, is the language usually employed, under this name by dramatick writers; and not in a more general sense of the term, any regular provincial dialect corrupted from Sanserit. HE'MA-CHANDRA, in his grammar of Prácrit, declares it to be so called because it is derived from Sanserit.*

Accordingly his and other grammars of the language confist of rules for the transformation of Sanscrit words into the derivative tongue: and the specimens of it in the Indian dramas, as well as in the books of the Jains, exhibit few words which may not be traced to a Sanscrit origin. This is equally true of the several dialects of Prácrit: viz. Sauraséní or language of Súraséna,† and Mágadhí or dialect of Magadha;‡ which, according to grammarians, who give rules for deducing the first from Sanscrit and the second from the first, or both from Sanscrit, are dialects nearly allied to Frácrit, and regularly formed by permutations, for which the rules are stated by them. The same may be said

^{*} प्रकृतिः संद्धतं ॥ तत्रभवं नत आगनंबाप्राहनं ॥

[†] CULLU'CA BHAT'T A (on MENU 2. 19.) fays, that S'urasena is the country of Mai'bura.

[‡] Cicata or Bibar. But it does not appear, that either this, or the preceding dialect, is now spoken in the country, from which it takes its name. Specimens of both are frequent in the Indian dramas.

VARARUCHI and his commentator BHA'MAHA.

HEMACHANDRA, who, after stating the special permutations of these dialects as derived from Sanscrit, observes in both places, that the rest of the permutations are the same with those of Pracrit.

of the Pais'achi, as a language, (and distinguished from the jargon or gibberish which either dramatick writers, or actors exhibiting their dramas, sometimes put into the mouths of demons); for the grammarians of Prácrit teach the manner of forming the Pais'áchi * from the dialect called S'auraséni.† That remark may be also extended to Apabhrans'a as a fixed language partaking of Prácrit and S'auraséni, but deducing many terms immediately from the Sanscrit under rules of permutation peculiar to itself. ‡

THE affinity of these dialects of Prácrit to the Sanscrit and to each other is so great, that they reciprocally borrow, notwithstanding their own particular rules, terms permuted in the manner of other dialects, and even admit, without alteration, words inslected according to the Sanscrit grammar. § They may be, therefore, considered as dialects of a single language, the Prácrit or derivative tongue; so termed with reference to Sanscrit, from which it is derived.

Besides these cognate dialects, the dramatick writers introduce other languages as spoken by different persons of the drama. Such, according to the enumeration in the Sáhitya derpan'a, || are the Dácshin'atya, || or language used in the south of India; the Drávidí or

Or language of the Pis'achas. पिणाव नामाणापेशाची BHA MAHA on VARARUCHI.

[†] VARARUCHI and HE'MACHANDRA. The last mentioned author notices a variation of this dialect under the name of Chulicapais achi; which differs very little from the proper Pais'achi.

[‡] It is taught under this name by HE MACHANDRA, among other dialects of Pracrit.

But the name usually fignifies ungrammatical language.

⁶ HE MACHANDRA ad finem.

[|] Ch. 5.

Same with Vaidarbhi, according to the commentator of the Sabitya derpan'a. The country of Viderbha is faid to be the modern Berar proper.

dielect of the southern extremity of the peninsula; the Avantica (probably the language of Málavá); * the Ard'ha mágad'hí, distinguished from Mágad'hí properly so called; the Báhlicábháshá, perhaps the language of Balk in the Transoxana); † the Maháráshtrí or dialect of the Marhattas; the Práchyá or language employed in the east of India; ‡ the Abhárí and Chándálí, which from their names, seem to be dialects used by herdsnen and by persons of the lowest tribes; the Sáncará and Sábarí, concerning which nothing satisfactory can be at present suggisted; and generally any provincial dialect.

Ir is not to be supposed, that the Prácrit rules of prosody, as taught by Pingala, are suited to all these languages: but it is probable, that they were framed for the same dialect of Prácrit, in which they are composed; and they are applicable to those cognate dialects, which differ much less from each other (being very easily consounded), than they all do from Sanscrit, their acknowledged common parent. Generally those rules may be considered applicable to all the languages comprehended under the designation of Prácrit, as derivative from Sanscrit; and certainly so to the vernacular tongues of the ten nations of Hindus now inhabiting India. A writer on Sanscrit prosody pro-

^{*} Avanti is another name of Ujjayant.

[†] Báblica or Pablica (for the word is spelt variously) is a country samous for the breed of horses. Amera. 2 8. 45 It appears to be situated north of India; being mentioned in enumerations of countries, with Turushca, Chasa, Casmira &c. (He'MACHANDRA. 4. 25. Tricanda s'esba. 2. 1. 9.)

[†] The commentator on the Sahitya derpan'a (RA'MA CHARAN'A), interprets Prachya, by Gau'diya; meaning, no doubt, the language of Bengal. He was himself a native of this province; and his work is modern, being dated S'uca 1622 (A. D. 1700.)

⁶ As. Res. VII. p. 219.

NARA'YAN'A BHAT'T'A in a commentary on the Vritta retnácara written in Sambat. 3602 (A. D. 1546.)

nounces the various kinds of metre to be admissible in the provincial languages, and has quoted examples in those of Mahārāshtra, Gurjara and Cānyacubja. The last mentioned, which is the same with the old Hindí, as is demonstrated by this specimen of it, might furnish very numerous instances; especially the Hindí poetry of Ce'sava da'sa, who has studiously employed a great variety of metre. Some examples will accordingly be quoted from the most distinguished Hindí poets. The sacred books of the Sikhs, composed in a Penjābí dialect, which is undoubtedly derived from the ancient Sāreswata, + abound in specimens of such metre. The language of Mit'hilá, and its kindred tongue, which prevails in Bengal, also supply proof of the aptitude of Sanscrit prosody: and the same is probably true of the other sour national languages. ‡

PINGALA's rules of Sanscrit profody are expressed with singular brevity. The artifice, by which this has been effected, is the use of single letters to denote the seet or the syllables. Thus L, the initial of a word signifying short (lag'hu), indicates a short syllable. G, for a similar reason, intends a long one. The combinations of these two letters denote the several dissyllables: Ig signifying an iambic; gl a trochæus or choreus; gg a spondee; ll a pyrrichius. The letters, M.Y.R.S.T.J.Bh. and N, mark all the trisyllabical feet, from three long syllables to as

^{*} Contemporary with JEHA'NGIR and SHA'H JEHA'N.

[†] The remaining Sareswata Brahman'as inhabit chiefly the Penjab.

[†] Those of Dravida, Carnataca, Telinga, and Odra or Udiya. I omit Gaura. The Brahman'as, bearing this national designation, are settled in the districts around Delbi: but, unless theirs be the language of Mat'hura, it is not easy to assign to them a particular national tongue.

f Being the initial of guru, long,

many short. A Sanser'tt verse is generally scanned by these last mentioned seet; with the addition of either a dissyllable or a monosyllable at the close of the verse, if necessary. This may be rendered plain by an example taken from the Greek and Latin prosody.

Scanned in the *Indian* manner, a phaleucian verse, instead of a spondee, a dactyl and three trochees, would be measured by a molossus, an anapæst, an amphibrachys and a trochee; expressed thus, m. s. j. g. l. A sapphic verse would be similarly measured by a cretic, an antibacchius, an amphibrachys and a trochee; written, r. t. j. g. l.

To avoid the too frequent use of uncommon terms, I shall, in describing the different sorts of Sanscrit metre, occasionally adopt a mode of stating the measure more consonant to the Greek and Latin profody, in which the iambic, trochee, and spondee, dactyl, anapæst, and tribrachys are the only seet of two or three syllables which are commonly employed.

In Prácrit profody the variety of feet is much greater: verses being scanned by seet of different lengths from two mátrás, (two short syllables or one long) to three, sour, sive and even six mátrás or instants. These various descriptions of seet have been classed, and denominated, by the writers on this branch of profody.

THE verse, according to the Sanscrit system of prosody, is the component part of a couplet, stanza or strophe, commonly named a S'lóca, although this term be sometimes restricted to one sort of metre, as will be subsequently shown on the authority of Ca'll-

DA'SA. The stanza or strophe consists usually of four verses denominated páda; or, considered as a couplet, it comprises two verfes fubdivided into pádas or measures. Whether it be deemed a flanza or a couplet, its half, called ard has loca, contains usually two padas; and in general the paufes of the fense correspond with the principal paufes of the metre, which are accordingly indicated by lines of separation at the close of the S'loca and of its hemistich. When the fense is suspended to the close of a second S'loca, the double stanza is denominated Yugma; while one, comprising a greater number of measures, is termed Culaca. In common with others, I have fometimes translated Sloca by " verse," or by " couplet;" but, in profody it can only be confidered as a stanza, though the pauses are not always very perfectly marked until the close of the first half: and, in conformity to the Indian system, it is generally treated as a tetrastich, though some kinds of regular metre have uniform pauses which might permit a division of the stanza into eight, twelve, and even fixteen verses.

In Prácrit prosody, a greater variety is admitted in the length of the stanza; some species of metre being restricted to a true couplet, and others extended to stanzas of six and even sixteen verses: independently of pauses, which, being usually marked by rhyme, would justify the farther subdivision of the stanza, into as many verses as there are pauses. Even in Sanscrit prosody, instances occur of stanzas, avowedly comprising a greater or a less number of verses than sour: as three, sive, six, &c. But these are merely exceptions to the general rule.

Concerning the length of the vowels in Sanscrit verse, since none are ambiguous, it is only necessary to remark, that the comparative length of syllables is determined by the allotment of one instant or mátrá to a short syllable, and two to a long one; that a naturally short vowel becomes long in prosody when it is followed by a double or conjunct consonant;* and that the last syllable of a verse is either long or short, according to the exigence of the metre,† whatever may be its natural length.

Sanscrit profody admits two forts of metre. One governed by the number of fyllables; and which is mostly uniform or monoschemastic in profane poetry, but altogether arbitrary in various metrical passages of the Vidas. The other is in fact measured by feet like the hexameters of Greek and Latin: but only one fort of this metre, which is denominated Aryá, is acknowledged to be so regulated; while another sort is governed by the number of fyllabick instants or mátrás,

or by the nafal termed Anuswa'ra, or the aspirate Visarga. By poetical license, a vowel may be short before certain conjuncts (viz. A and 夏; as also 4 & 承). This license has been borrowed from Pracrit prosody, by the rules of which a vowel is allowed to be sometimes short before any conjunct, or before the nasal: but instances of this license occur in classical poems with ally four conjuncts as above mentioned; and, even there, emendations of the text have been proposed by criticks to render the verse conformable to the general laws of prosody. (See remarks in the Durghat'a vritti; on passages of Ma'GHA's poem and of the Cumára)

⁺ This rule of profody is applicable to any verse of the tetrastich: but it is considered by writers on rhetorick inelegant to use the privilege in the uneven verses; and they thus restrict the rule to the close of the stanza and of its half, especially in the more rigid species of regular metre.

I. Gan'ach'handas or metre regulated by feet (mátrágan'a.) A'R Y A' OF GA'T'HA'.

THE metre, named A'rya, or, in Pracrit, Gaha, from the Sanscrit Garha, is measured by feet denominated gan'a, or matragan'a, which are equivalent to two long fyllables or to four short: it is described as a couplet, in which the first verse contains seven and half feet; and the fixth foot must confist of a long syllable between two short, or else of four short; while the odd feet (1st, 3d, 5th and 7th) must never be amphibrachys.* In the fecond verse of the couplet, the fixth foot (for here too it retains that name) confifts of a fingle fhort fyllable. Confequently the proportion of fyllabick instants in the long and short verses is thirty to twenty-feven. + The fame metre has, with fome propriety, been described as a stanza of four verses: for it is subdivided by its pauses into four pádas, which have the usual privilege of giving to the last syllable, whether naturally long or short, the length required by the metre. The pause is commonly restricted to the close of the third foot; and the meafure is in this case denominated Pathyá: but, if the pause be placed otherwise in either verse, or in both of them, the metre is named Vipula,

A PARTICULAR fort of this measure, deduced from either species above described, is called Chapalá; and the laws of in construction require, that the second and sourth seet should be amphibrachys; and that the first foot should be either a spondee or an anapæst; and the fifth,

^{*} If the rule be violated, the metre is named Gurvin't; but this is reprobated by writers on profody.

[†] As. Res. Vol. II. p. 390.

[‡] Vritta muctavali.

a dactyl or a spondee. The first verse of the couplet, the second or both, may be constructed according to these rigid rules: hence three varieties of this fort of metre.

The regular A'nyá confists of alternate long and short verses: but, if the short verse precede the long one, the metre is called Udgiti. If the couplet consist of two long verses, it is named Giti; or of two short verses, Upagiti. Another fort of this metre is named A'nyá giti: it is constructed by completing the eighth foot of the regular A'nyá.*

This measure admits therefore of eighty principal variations; deducible from the nine forts abovementioned: for the pause may be placed at the close of the third foot in either verse of each couplet, in both, or in neither; and either werse, both, or neither, may be constructed according to the strict rules of the Chapalá measure; and the verse may consist of seven and a half, or of eight seet; and may be arranged in couplets consisting of verses alternately long and short, or alternately short and long, or else uniformly long, or uniformly short.

The Aryá metre is very frequently employed by Indian poets; but works of great length in this measure are not common: it is oftener intermixed with verses of other kinds, though instances do occur of its exclusive use: thus the first and fourth cantos, and most part of the 2d and 3d, in the poem entitled Nalódaya, and the entire work of Go-ver d'hana, † are in the Aryá metre. And so is the brief text of the

^{*} It may be varied by alternating a long and a short verse, or a short and a long one, or by making both verses long.

[†] Confisting of seven hundred (or with the introduction 755) stanzas of miscellaneous poetry; and entitled from the number of stanzas Sapta sati.

Sánc'hya philosophy of Carila, as taught by 'Is'waracrishn'a; and the copious treatise of astronomy by Brahmegupta.

THE Nalodaya abovementioned, which is ascribed to the celebrated poet Ca'lida'sa, is a poem in four cantos, comprising 220 couplets or stanzas; ton the adventures of Nala and Damayanti: a story which is already known to the English reader. In this singular poem, thyme and alliteration are combined in the termination of the verses: for the three or four last syllables of each hemistich within the stanza are the same in sound though different in sense. It is a series of puns on a pathetick subject.

It is supposed to have been written in emulation of a short poem (of 22 stanzas) similarly constructed but with less repetition of each rhyme; and entitled from the words of the challenge with which it concludes.

Ghat'a carpara.

आलंब्यवामुनृषितः कर्कोश्पेयं भावानुरक्तव नितास्तरतेः श्पेयम्। जीयेययेन कविनाय मंत्रैः परेण कस्मैवहे यमुद् कंच टक्पेरेण।

THIRSTY and touching water to be tipped from the hollow palms of my hands, I fwear by the loves of sprightly damfels, that I will carry water in a broken pitcher for any poet by whom I am surpassed in rhymes.'

^{*} Author of the Carica or metrical maxims of this philosophy. Sutras, or aphorisms in prose, which are ascribed to Capida himself, are extant: but the work of I's WARA CRISHNA is studied as the text of the Sanc'hya (As. Res. Vol. VIII. p. 466.)

⁺ Entitled Brahmesphufa sidd'hanta: other treatifes, bearing the same or a similar title, are works of different authors.

[‡] Chiefly A'rya, with a few anapæstic stanzas (Tot'aca), and a still smaller number of iambies and trochaics (Praman i and Samani).

Translated by Mr. KINDERSLEY of Madras, from a tale in the provincial language.

However, the epick poem of Ma'G'HA, which will be mentioned more particularly under the next head, contains a specimen of similar alliteration and rhyme; the last fourteen stanzas of the sixth canto, (descriptive of the seasons,) being constructed with like terminations to each half of the stanza. Instances will also be cited from BHA'RAVI'S poem hereafter noticed.

The following example of a species of the Arya metre is taken from the preface of the Nalódaya.

Arya giti (8 feet).

— ००!--!--!--।--।०-०!--!--। असिस्यजानीत्रमारखोदीयतीःपर्जानीते।

—००१: —। --।--। ०० —। ०-०१- —। यस्रराजानीतेरानानिजनः जुलेधराजानीते॥

"THE king celebrated under the name of RA'MA, exists, who is conversant with the formeme ways of moral conduct; in whose family, exempt from calamity and enriched with the gems of the earth, dependants flourish." 1. 5.

THE next is taken from DAMAYANTI'S lamentation on finding herfelf-deferted by her husband NALA. It is in the same species of metre.

26. Tatra, padé vyálínám, at'ha vibhrántam vané cha dévyá, 'línám tanu-vrindé vyálínám tatin dad'háné, tayá'spadé vyálínám.

27. Véga-balá 'páñtayá, 'Vén'yá, Bhaimí yutá lalápá 'fitayá.

"Nripa! fa-calápá 'fitayá.
hatwá 'rin, bándhaván cilá 'páñ tayá.
28. Sa cat'ham mána-vanánám, Nyáyavid! áchatafi févyamána-vanánám, D'hrita-fímá navánám,

^{*} RA'MA RA'JA, by whose command the poem was composed. So the commentators remark: but it remains uncertain who he was, or where he reigned.

29. Para-critam état twénah [tu énah]
Smarámi, tan na smritó 'si mé tattwéna,
Do'sha-samétatwéna
pradúshayé ná'tra sambhramé tat twéna! [twá, ina!]"

तच्यदेवालीनामध्विमानंवनेचरेवालीनाम्।
तत्वृद्वालीनां तिन्द्धानेत्यास्पदेवालीनां ॥ २६॥
वेगवलापासितयावेग्याभैमीयुताललापासितया।
च्यस कलापासितयाहत्वारीन्वा न्यवान्किलापासितया॥ २०॥
सक्ष्यमान वनानांन्यायविदाचरसिसेव्यमान वनानां।
धृतसीमा नवनानांदाग्णांत्यागमनुपमान वनानाम्॥ २५॥
पर्वतमेत लेनः सग्मितवस्गृतोसिमेत लेन।
देशवसमेत लेन प्रदूषयेनावसं भ्रमेत लेन ॥ २०॥

'THEN the princess wandered in the forest, an abode of serpents, crowded with trees which resound with the sweet buzz of bees, the resort of flocks of birds. With her dark hair dishevelled through her haste, Bhaimi thus lamented: "King! thou slayest foes, but defendent thy kindred, with thy quiver and thy sword. Unrivalled in excellence and conversant with morality, how hast thou practised the desertion of a wife proud but left helpless in a forest; thus gendering thyself the limit of praise? but I consider this evil to be the act of another; and do not charge thee with it: I do not blame thee, my husband, as in fault for this terror." 3. 26—29.

In the passage here cited, some variations in the reading, and greater differences in the interpretation, occur: with which it is, however, unnecessary to detain the reader. After consulting several scholia, the interpretation, which appeared preferable, has been selected. The same mode will be followed in subsequent quotations from other poems.

II. Mátrách handas or metre regulated by quantity.

1. VAITALI'XA.

ANOTHER fort of metre, regulated by the proportion of mátrás or fyllabick inftants, is measured by the time of the fyllables exclusively;

without noticing, as in the Ganach'handas, the number of feet. It is therefore, denominated Matrach'handas, and the chief metre of this kind is named Vaitaliya. It is a tetrastich or strophe of four verses, the first and third containing the time of fourteen short syllables; and the second and fourth, fixteen. The laws of its construction impose that each verse shall end in a cretic and iambic; or else in a dactyl and spondee; * or, by the addition of one long syllable to the regular Vaitaliya, in a cretic and bacchius.† In regard to the remaining moments, which are fix in the odd verses, and eight in the even verses of the strophe, it must be obferved as a general rule, that neither the fecond and third, nor the fourth and fifth moments should be combined in the same long syllable; nor, in the second and fourth verses, should the fixth mátrá be combined with the seventh. That general rule however admits of exceptions; and the name of the metre varies accordingly. I suppose the name of the metre varies accordingly.

ALTHOUGH the Vaitaliya regularly confift of alternate thort and long verses, it may be varied by making the stanza consist either of four short or four long verses; admitting at the same time the exception just now overes the name (as is firquently the cafe,) -nes no radical m hinted.

This variety of the metre is named A patalica, tom lo foodul ont them boffon + Thus augmented, the measure is called Aupach'handasica: the whole of the last canto of MA'GHA's epick poem hereafter mentioned is in this metre: and so is the first half of the 13th canto in BHA'RAVI'S Ciratarjuniya. att bos ; Tholore to mist a sa noticoligas

In the even verses of the strophe, if the 4th and 5th moments be combined in one long fyllable, contrary to the general rule abovementioned, the metre is named Prachya vritti: or, in the odd verses, if the 2d and 3d moments be so combined, the metre is denominated Udichya vritti: or the rule may be violated in both instances, at the same time; and the measure then takes the name of Pravrittaca.

A tetraftich, confifting of four short verses of the fort called Pravrittaea, is named Charubasini: and one comprising four long verses of that description is termed Aparantica.

four verfes, the first

all va use a cretic and

which are fix in the

THE following is an example of a stanza composed in a species of this metre: orenominated Mail not hander, and the chief metre : with metre

Vaita'líya (Pravrittaca).

habits; and the fecond Idam, Bharata-vans'a-bhubhritam, and fourth, factorn, aruyatám, sruti-manoralayanam, vd (10 "; sebnogl bus | pavitram, ad'hicam, fubhôdayam, 18 bisson a tri bus lless Vyáfa-vactra-cat'hitam, PRAVRITTACAM.

•_| • • • | - • | • • | - • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • • | • | • • | • | • • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • do ad flum it sale पविच मधिकं मुभाद संन्या स वक्क कि विच म bas asirav blo

"TISTEN to this pure, aufpicious and pleafing hiftory of the kings of the race of BHA-BATA as uttered from the mouth of Vya'sa." bluent servoice dell bus ritirot

HERE, as in most of the examples given by the commentator HE-LAYUDHA, and by other writers on profody, the name of the metre occurs, but with a different acceptation. Where the stanza has the appearance of being a quotation (as in the prefent instance), it might be conjectured, that the denomination of the measure was originally assumed from the example; and this conjecture would appear probable, whereever the name (as is frequently the case,) has no radical meaning connected with the subject of metre. But, in many instances, the radical interpretation of the word is pertinent and has obviously suggested its application as a term of profody; and the stanza, which is given as an example, must therefore have been purposely constructed to exhibit the metre by words in which its denomination is included. This is confirmed by the circumstance of some of the words being incompatible with the measure which they defiguate; and in such cases the author apologizes on that ground for not exhibiting the name in the example.

THE Vaitaliya metre has been employed by some of the most emment poets: for instance, in the epick poem of Ma'c'ha, the 16th canto of which is chiesly in this measure, as the 20th and last canto is in that species of it which is called Aupach'handasica.

THE work here mentioned is an epick poem, the fubject of which is the death of S'is'UPA'LA flain in war by CRISHN'A: it is entitled S'is'upala-bad'ha, but is usually cited under the name of its author, whose defignation, with praises of his family, appears in the concluding stanzas of the poem, Yet, if tradition may be trufted, Ma'G'HA, though expressly named as the author, was the patron, not the poet. As the subject is heroick, and even the unity of action well preferved, and the flyle of the composition elevated, this poem is entitled to the name of epick. But the Indian talle for descriptive poetry, and particularly for licentious description, has disfigured even this work, which is otherwife not undeferving of its high reputation. The two first cantos and the last eight are suitable to the design of the poem. But the intermediate ten, describing the journey of CRISHN'A with a train of amorous damsels, from Dwaraca to Indraprast'ha, is misplaced, and in more than one respect exceptionable. in reply to a diffeourie of the

THE argument of the poem is as follows. In the first canto, Na'REDA, commissioned by INDRA, visits CRISHN'A and incites him to war with his cousin, but mortal enemy, S'IS'UPA'LA king of the Chédis. In the fecond, CRISHN'A consults with his uncle and brother, whether war should be immediately commenced, or he should first assist YUD'HISH-T'HIRA in completing a solemn sacrifice which had been appointed by

him: the refult of the confultation is in favor of the latter measure: and accordingly, in the 3d canto, CRISHN'A departs for YUD'HISHT'HI-RA's capital. In the thirteenth he arrives and is welcomed by the PA'N'DAVAS. In the following canto, the facrifice is begun; and, in the next, S'IS'UPA'LA impatient of the divine honours paid to CRISHN'A retires with his partifans from the place of facrifice. A negociation enfues; which is however ineffectual, and both armies prepare for This occupies two cantos. In the eighteenth both armies iffue to the field of battle, and the conflict commences. The battle continues in the next canto, which describes the discomfiture and flaughter of S'is'upa'la's army. In the last canto, the king, grown desperate, dares CRISHN'A to the combat. They engage, and in the Indian manner fight with supernatural weapons. S'IS'UPA'LA affails his enemy with ferpents, which the other destroys by means of gigantic cranes. The king has recourse to igneous arms, which CRISHN'A extinguishes by a neptunian weapon. The combat is prolonged with other miraculous arms, and finally CRISHNA flays S'IS'UPA'LA with an arrow.

THE following example is from a speech of S'15'UPA'LA's embassador, in reply to a discourse of S'ATYACI brother of CRISHN'A, at an interview immediately preceding the battle.

विविनिक्तिन बुद्धिद्विधः स्वयमेव स्वित्तं पृथ्य ग्जनः । यद्दीरितमण्यदः परैर्ज्ञ विज्ञाना तितद् द्वृतं महत्॥ ३०॥ विद्देशे व्यद् पायमान्मना परतः श्रद्धते ६ थवा बुधाः । नपरे पहितंन चस्तः प्रमिमोते ६ तुभवा हृते ६ ल्पधीः ॥ ४०॥ कुण् संखलु तुभ्यमेव तद् चनं कु स्वयद्भ्यधा महत्। सपदेश् प्रश्रापरे व्यपस्विवना श्राभिमु स्पृस्तिधवः॥ ४९॥ अववाभिनिविष्यं कर्जालंकमलाकरेखिव ॥ ४३॥ रिविष्णिव्यानिविष्यं कर्जालंकमलाकरेखिव ॥ ४३॥

A low man, poor in understanding, does not perceive his own advantage: that he should not comprehend it when shown by others, is surprising. The wise, of themselves, know the approach of danger, or they put trust in others: but a foolish man does not believe information without personal experience. The proposal, which I made to thee, Crishn'a, was truly for thy benefit: the generous are ready to advise even their enemies bent on their destruction. Peace and war have been offered at the same time by me; judging their respective advantages, thou wilt choose between them. Yet good advice addressed to those whose understanding is astray, becomes vain, like the beams of the cold moon directed towards lakes eager for the warm rays of the sun." 16, 39—43.

ANOTHER passage of the same poem is here subjoined as a specimen of a different species of this metre. It is the opening of the last canto; where S'is'upa'la, impatient of the discomsiture of his troops and of those of his allies, dares Crishn'a to single combat.

Aupach'handasica.

मुखमुझसित विरेखमुझैभिँदुरभूयुगभी वणंद्धानः। समितावितिविक्रमा नमृष्यचावभी रह्न चेदि रहम् रिम्॥

Muc'ham ullasita-tri-rec'ham uchchair bhidura-bhru-yuga-bhishan'an dad'hánah, Samitáv iti vicramán amrishyan, gatabhír, áhwata Chédirát Murárim.

Raising his head, and with a countenance terrible by its forked brow and wrinkled forehead, the king of the Chédis, impatient of the prowess thus displayed in battle, banished fear, and challenged the foe of Mura to the fight,' 20. 1.

A further example of the same metre is the second stanza of the following extract from the Cira'ta'rjuniya* of BHA'RAVÍ. The remain.

^{*} ARJUNA and the mountaineer. Cira'ta is the name of a tribe of mountaineers confidered as barbarians.

ing stanzas exhibit variety of measure, with two instances of fingular

THE subject of that celebrated peom is ARJUNA'S obtaining celestial arms from S'IVA, INDRA and the rest of the gods, to be employed against DURYO'D'HANA. It is by a rigid observance of severe austerities in the first instance, and afterwards by his prowess in a conslict with S'IVA (in the disguise of a mountaineer), that ARJUNA prevails. This is the whole subject of the poem; which is ranked with the Cuma'ra and Raghu of Ca'lida'sa, the Naishad'hiya of Sriharsha, and Ma'-GHA'S epick poem, among the six excellent compositions in Sanscrit. The sixth is the Meghadúta also ascribed to Ca'lida'sa; and, on account of its excellence, admitted among the great poems (Maha'cavya), notwithstanding its brevity.

अनु चरेण अता शिपते र शानगिव ले । क्ष मिविसानमान सः । स जगदे व च नं पियमाद एन् पुखरता वसरे चि विग्र जते ॥ १६ ॥ अ ल मे प विले कि नः प्रजानं सम्सासं तिमं स्सं विच् तं । घ न वर्ष्य स्थिव कुर्व न् दिम गैरिर च ला शिपः शिरेशिः ॥ १७ ॥ इ च दुर्श श्रेम में : किंचिदे वार्यमें स्त तम छ तरं वर्ष्ययं त्यं तरं । अमृमति विपिनं वेद चि स्वापिनं एक्ष पमि वपरं घ द्वायो निष्यरं ॥ १८ ॥ क्षिर प स्मवपुष्य ल ता गृन्हे क्ष प स स ज्ञाल जै जी स शिभिः । नयति स ततमु त्तु कता म यं शृतिमती क्ष पक्षे। तमि पि स्वयः ॥ १० ॥ छ ल भेस्सदा न य व ता य व ता नि शि गुह्य का शिपर में । पर में । । अमृना धने : श्रितिभृता तिभृता स्मती त्यभा ति जगती जगती ॥ २०॥

THE Ranzas, which contain alliteration, are here copied in Roman characters.

TARREST OF THE LAW ASSESSMENT

18. Iha durad'higamaih Cinchid évágamaih Satatam afutaram Varn'ayantyantaram, Amum ativipinam
Véda digvyápinam
Purusham iva param
Padmayónih param.
20. Sulabhaih sadá nayavatá 'yavatá
Nid'hi-guhyacád'hipa-ramaih paramaih
Amuná d'hanaih cshitibhrīta 'tibhrītá
Samatítya bháti jagatí jagatí.

* THEN ARJUNA, admiring the mountain in filent aftonishment, was respectfully addressed by his conductor, Cuve'ra's attendant: for even loquacity is becoming in its feason.'

This mountain with its fnowy peaks rending the cloudy fky in a thousand places, is, when viewed, able to remove at once the fins of man. An imperceptible something within it, the wise ever demonstrate to exist by proofs difficultly apprehended. But Brahma' alone thoroughly knows this vast and inaccessible mountain, as he alone knows the supreme soul. With its lakes overspread by the bloom of lotus, and overshadowed by arbours of creeping plants whose soliage and blossoms are enchanting, the pleasing scenery subdues the hearts of women who maintained their steadiness of mind even in the company of a lover. By this happy and well governed mountain, the earth, filled with gems of easy acquisition and great excellence delightful to the god of riches, seems to surpass both rival worlds." 5. 16—20.

2. MA'TRA'-SAMACA.

The metre denominated Mátra'samaca confifts of four verses, each of which contains the quantity of fixteen short syllables; and in which the last syllable must be a long one; and the ninth syllabick moment must be in general detached from the eighth and tenth and be exhibited of course by a short syllable; if the twelfth be so likewise, the metre is distinguished by another name; or if the fifth and eighth remain short, the denomination is again changed. The last sort of metre is varied by deviating from the rule respecting the ninth moment; and another varie-

The first and fourth stanzas, in this quotation, are in the Drutavilambita metre, and the fifth in the Pramita'eshara'; which will be both noticed under a subsequent head. The third is in an uncommon measure named Chandrica' or Cshama'.

ty exhibits the fifth, eighth and twelfth moments by fhort fyllables.*

These five varieties of the metre called Mátrásamaca may be variously combined in the same stanza; and in that case the measure is denominated Pádáculaca: a name, which is applied with greater latitude in Prácrit prosody, to denote a tetrastich wherein each verse contains sixteen moments, without any other restriction as to the number and place of the long and short syllables.

A POEM inferted in the first volume of Asiatic Researches + is a specimen of the variety, which this fort of metre admits. In a collection of tales entitled Vétála panchavins'eti, the author S'IVADA'SA has quoted several stanzas of that poem intermixed with others, in which the measure is still more varied: and I may here remark, that the introduction of rhyme into Sanscrit verse is not peculiar to this anapæstick metre: JAVADE'VA has adopted it with success in several other sorts of lyrick measure; and it is frequent in Sanscrit poetry composed in any species of Prácrit metre.

3. Gitya'rya'.

ANOTHER species of metre regulated by quantity is named Sityáryá. Like the preceding, it is a tetrastich in which each verse consists of sixteen mátrás or moments; but all expressed by short syllables. In other words the stanza contains sixty-four short syllables distributed into sour

The names of these sour varieties are 1st, Vana vasica, which exhibits the 9th and 12th moments by short syllables, and 15th and 16th by a long one: the rest being optional. 2dly, Chitra exhibiting the 5th, 8th and 9th by short syllables, the 15th and 16th by a long one. 3dly, Upachitra, the 5th, 8th short; 9th and 16th long; also 15th and 16th long. 4thly, Viiloca; 5th, 8th and 12th short; 15th and 16th long; and the rest indeterminate.

[†] Page 35.

verses. From the mixture of verses of this description, with others confishing exclusively of long syllables, arises another metre distinguished into two forts according as the first couplet in the stanza consists of short syllables and the second of long; or, conversely, the first long, and the second short. The Gityáryá may be surther varied by making the last syllable of each couplet long, and all the rest short; at the same time reducing both couplets to twenty-nine moments, or the first only to that measure; and the second to thirty-one: or the first couplet to thirty, while the second contains thirty-two.

4. Prácrit measures.

The foregoing are all comprehended under the general designation of Játi: and besides these, which are noticed in treatises on Sanscrit prosody, other kinds, belonging to the class of metre regulated by quantity, are specified by writers on Prácrit prosody. They enumerate no less than forty-two kinds, some of which comprehend many species and varieties. The most remarkable, including some of those already described as belonging to Sanscrit prosody, are the following, of which instances are frequent in Prácrit, and which are also sometimes employed in Sanscrit poetry.

A STANZA of four verses, containing alternately thirteen and eleven moments (and scanned 6+4+3 and 6+4+1) is named either Dóhá,‡

^{*} The mixed metre, in which one couplet of the stanza contains short syllables, and the other long, is termed Sic'ha or Chu'da: if the first couplet contain the short syllables, it is denominated Jyōtish; but is called Saumya, or Anangacrid'a, when the first couplet consists of long syllables.

[†] This metre, concerning which authorities disagree, is called Chū' dica or Chulica; or according to the Vritta Ratnacara, Atiruchira.

[‡] Corruptly Dobra.

(S. Dwipat'há) or Sórat'thá (S. Sauráshtra), according as the long verse precedes the short one, or the contrary. This metre, of which no less than twenty three species bear distinct names, (from 48 short syllables to 23 long and 2 short,) is very commonly used in Hindi poetry. As an instance of it, the work of Biha'rila'l may be mentioned, which consists of seven hundred couplets (sat saï) all in this measure. It is a collection of descriptive poetry; of which Crishn'a, sporting with Ra'd'ha' and the Gópis, is the hero. The following example is from that celebrated author.

Macarácrita Gópála cé Cun'd'ala jhalacata cána. D'hafyó manó hiya ga'd'ha famara: D'yód'hí lafata nifána.

मकराक्तनेगापासकेषुंउस मरसकतकान। धस्यामना स्यग्छ समर खी। जीसस्तनिसान॥

of cupid suspended at the gate, while the god is lodged in his heart.'

To understand this stanza, it must be remarked, that the symbol of the Indian Cupid is the aquatick animal named Macara: (which has in the Hindu Zodiack the place of Capricorn). It is here translated dolphin, without however supposing either the deliverer of Arion, or any species of dolphin (as the term is appropriated in systems of natural history), to be meant.

THE Gát'há or Gáhá has been already noticed as a name of the A'ryá measure in Prácrit prosody. Including under this as a general designation the seven species of it, with all their numerous varieties, it is no uncommon metre in Prácrit poetry. A collection of amatory verses

afcribed to the famous monarch S'A'LIVA'HANA, comprising seven hundred stanzas* and purporting to be a selection from many thousands by the same author, is exclusively in metre of this kind. The introductory verse intimates, that

"Seven hundred couplets (gahas) are here felected out of ten millions of elegant couplets composed by the poet Ha'La."

HA'LA is a known title of SA'LIVA'HANA, and is so explained both here and in a subsequent passage by the scholiast GANGA'D'HARA BHAT'T'A. It is not, however, probable, that he really composed those verses; and it would be perhaps too much to conjecture, that the true author of them was patronised by that monarch whose existence as an *Indian* sovereign has been brought in doubt.

THE metre called Maháráshtra (in Prácrit, Marahat't'á) is a tetrastich, of which each verse contains 29 mátrás, scanned by one soot of 6 and sive of 4; with a terminating trochee. It has pauses at the 18th and 29th mátrás. This measure is evidently denominated from the country, which gives name to the Marahattá nation; as another species, beforementioned, takes its designation from Sauráshtra or Sórattha.† The circumstance is remarkable.

ANOTHER tetrastich, which it is requisite to notice, is denominated Rólá. Each verse contains 24 mátrás: and this species of metre admits

[·] From their number, entitled Sat sai.

[†] The peninfula, between the gulfs of Cambay and Cutch. The name remains, but the boundaries of the province are more restricted than in ancient times. It still, however, includes the remains of CRISHNA'S city of Dwa'rca'; the celebrated temple of Somana't'ha so frequently plundered by the Muhamedans; and the mountain of Girana'ra held facred by the Jainas no less than by the followers of the Vida:

twelve varieties, from 24 short syllables to 11 long and two short, bearing distinct names.

THE Shat'padicá (Pr. Ch'happäá) is a stanza of six verses: arranged in a tetrastich and couplet; the first termed Cávya, and the second Ullá-la. In the tetrastich, each verse contains 24 moments (scanned 2+ sive times 4+2, or else 6+ sourtimes 4+2) with a pause at the 11th moment; and each verse of the couplet contains 28 moments, with a pause at the 15th. The varieties are extremely numerous, according to the number and the places of the long and short syllables. No sewer than forty-sive variations of the tetrastich, and seventy one of the whole stanza, have separate names. They are distinguished by the number of short and long syllables (from 152 short to 70 long and 12 short in the whole stanza, or from 96 short to 44 long and 8 short in the tetrastich). The following example is extrasted from the Pingala-vritti.

Ch'happäá or Shat'padica.

Pind'häu di d'ha san'n'aha; baha uppara pac'he'hara da'i, Band'hu samadi, ran'a d'halau. Sami Hammira baana lai, U'duu n'aha; paha bhamau; c'haga riu sisa hi jhalau. Pac'he'hara pac'he'hara, 't'helli pelli, pabbaa apparau. Hammira cajja Jajjalla bhan'a, cohan'ala mahu maha jalau, Sulatana sisa carabala dai, tejji calevara, dia chalau.

पिंधजिदिष्मसाह्वाह्चप्परपब्छ रदद् । बंधुसमिदिरणधं लजसामिह मीर वञ्जणलद् ॥ जडुजणह् पह्ममञ्ख्यारिजसीसहिम्साल्छ । पख्छरपख्छरठे स्मिपेस्मपञ्चञञ्जपार्छ ॥ ह मीरकज्जजज्ञस्म णकी हाणलमङ्गमहज्जल्छ । खलता न सीस्करबालद इतेज्जिकले बर्दिञ्चल्छ ॥ JAJJALA, general of HAMMIRA's forces, taking the field against the Muhammedan emperor, says vauntingly

"I PUT on strong armour, placing barbs on my horse, and taking leave of kinsmen, I hasten to the war. Having received the commands of my master Hammira, I sty through the sky; I pursue the road; I stourish my scimitar on the head of the soe. Amid the bustle of horse and foot I scale mountains. In Hammira's cause, Jajjala declares, The fire of wrath burns within me; laying my sword on the head of the Sultan, and abandoning this corporeal frame, I ascend to heaven."

The emperor, whose death was thus vainly promised to Hammira, by his braggart general, must have been Sulta'n Muhammed Khu'ni, with whom he is stated to have been contemporary; and who reigned from A. D. 1925 to 1351.* Hammira was sovereign of Sacambhari, which, with unseigned deserence for the opinion of Captain Wilford on a geographical question, I still think to be Sambher: † and for this simple reason; that the culinary salt, brought from the lakes of Sambher, is named in Sanscrit, Sacambhariya lavana, answering to the Hindi Sambher läun. It is, however, proper to remark that maps exhibit a place of the name of Sambhere between Ujjayani and Indor.

THE Utcach'ha is a stanza of six verses, each comprising eleven moments (scanned 4+ 4+ 3). It admits eight species from 66 short syllables to 28 long and 10 short.

THE Cundalica' is composed of one stanza of the metre named Doha', followed by another in the measure called Róla'. The entire stanza consequently comprises eight verses. In this species of metre, rhyme and alliteration are so appropriate ornaments, that it admits the repetition of

[.] As. Res. Vol. IX. p. 192.

[†] As. Res. Vol. VII. p. 511.

a complete hemistich or even an entire verse: as in the following example extracted from the Pingala vritta.

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Cun'd'alica or Cun'd'alia.

D'hóllá mária D'hilli maha, much'hia Méch'ha farira,
Pura Jajjallá mala bara, chalia bíra Hammíra.
Chalia bíra Hammírá, páä bhara méini campai.
Diga maga n'aha and'hára d'húli fúraha raha j'hampai.
Diga maga n'aha and'hára ánu. C'hurafánaca ólla
Davali, damasi vipac'hc'ha: máru D'hilli maha d'hóllá.

णिल्लामारिअणिल्लमहमुक्अमेकसरीरः।
पुरजञ्जलामञ्जवरचित्रअवीरहमीरः॥
प्रजञ्जलामञ्जवरचित्रअवीरहमीरः॥
प्रजञ्जलामञ्जवरचित्रअवीरहमीरः॥
प्रजञ्जलामञ्जवरचित्रअवरहमित्रंपरः।
दिगमगणहअधारअण्लुरस्णक्रेल्लाः।
द्वलिदमसिविप्यक्षमार्चित्रीमहिक्ताः॥

'HAVING made the barbarians faint at the found of the drum beaten in the midst of D'hills, and preceded by JAJJALA eminent above athlets, the hero HAMMIRA advances; and as the hero HAMMIRA advances, the earth trembles under his feet. The cloud of dust, raised by the march of his multitudes, obscures the chariot of the sun. Darkness spreads with the march of his multitudes. The hostages of the Khorasanian are slain; the soc is slaughtered; and the drum is beat in the midst of D'hills.'

A STANZA of nine verses, composed of one of sive with a tetrastich of the metre called Dôhá subjoined to it, is denominated Rad'dhá. Here the stanza of sive contains three verses of 15 moments each, with two of 12 and 11 interposed. The distribution of the seet, together with a restriction as to the terminating one, varies in each verse: and a difference in the regulation of the seet gives rise to six varieties which have distinct appellations.

The Chatush's licá (Pr. Chaupaïa or Chaupáï) is a flanza of fixteen verses distributed into sour tetrastichs, in which each verse contains 30 moments (scanned seven times 4+2), and terminated by a long syllable. This measure is of very frequent use in the poetry of the modern languages. The Rámáyan'a of Tulas's da'sa, in seven cantos, a poem held in great estimation by Hindus of the middle tribes, is composed chiesly in a similar metre under the same name (Chaupáï) and containing the same number of verses (16) in the stanza. It alternates with the Dóhá; and very rarely gives place in that poem to any other metre.

In this metre the stanza contains the greatest number of verses of any admitted into Pra'crit prosody. The other measures regulated by quantity are tetrastichs, except the Ghat't'a' and certain other couplets, noticed at the foot of the page:* some of which might have been ranked with more propriety under the next head of uniform metre.

One other measure which is placed in this class, but which belongs rather to another, remains to be noticed. It is an irregular stanza of four verses containing alternately 17 and 18 syllables with no regulation of their length or of the quantity of the verse or stanza. It is termed Gand'ha, or in Pracrit Gand'hana.

THE rest of the Prácrit metres may be sought in the synoptical tables subjoined to this essay.

The Ghattá and Ghattánanda, confisting of two verses of 31 matrás each. In the first species the pauses are after the 10th and 18th matrás; in the other after the 11th and 18th. There is also a slight difference in the distribution of the feet (7 times 4+3 short; and 6+3 times 3+5+6+3+3 short.) The Dwipadica has in each verse 28 matra's (6+sive times 4+1 long). The Sicha' containing the like number, the Chanja' with 41 matra's to the verse, and the Ma'la' with 45, are couplets; but the feet are strictly regulated.

THE present may be a proper place for noticing a class of poetry, which has been even more cultivated in the *Pracrit* and provincial languages than in Sanscrit. I allude to the erotick poetry of the Hindus.

On its general character, I shall briefly observe, that it is free from the grievous desects of the Hindi poems composed in the style and metre of Persian verse; but it wants elevation of sentiment and simplicity of diction. The passion, which it pictures, is sensual, but the language refined; with some tenderness in the expression and in the thoughts. Among the most celebrated poems in this class, may be mentioned, the Chaura panchasica comprising sifty stanzas by Chaura, and Amaru sataca containing twice that number by Amaru. The first is supposed to be uttered by the poet Chaura, who, being detected in an intrigue with a king's daughter, and condemned to death, triumphs in the recollection of his successful love. The other, which is a collection of unconnected stanzas on amatory topicks, is reputed to be the work of the great Sangara a'ch'arya, composed by him in his youth before he devoted himself to the study of theology.

Some of the commentators on this poem have attempted to explain it in a devout and mystical sense, on the same principle upon which Jayane'va's lyrick poems are interpreted as bearing a religious meaning. The interpretation, however, is too strained to be admitted; and though Jayane'va's intention may have been devout, and his meaning spiritual; Amaru, or whoever was the true author of the work bearing this name, is clearly the lover of an earthly mistress.

THE most singular compositions in this class of poetry, and for which chiefly a notice of it has been here introduced, are those in which the subject is treated with the studied arrangement and formal precision of the schools. I shall instance the Rasamanjari of Bha'nudatta mis'ra in Sanicrit, and the works of Matira'ma and Sundara in Hindi. Here various descriptions of lovers and mistresses distinguished by temper, age and circumstances, are systematically classed and logically defined, with the seriousness and elaborate precision of scholastick writers. As ridicule was not intended, these poems are not humorous but trisling: and I should not have dwelt on the subject, if their number, and the recurrence of them in different languages of India, were not evidence that the national taste is consulted in such compositions.

III. Varn'a vritta; metre regulated by the number of fyllables.

The next fort of metre is that, which is measured by the number of syllables: it is denominated Aesharach'handas or Varn'a vritta in contradistinction to the preceding kinds which are regulated by quantity; and it may be subdivided into three forts, according as the verses, composing the stanza, are all similar, or the alternate alike, or all diffimilar.

This also is a stanza of four verses (padas), each containing an equal number of syllables, the length of which is regulated by special rules. The number of syllables varies from twenty-four, to a hundred and four, in each strophe: that is, from six to twenty-six in each verse. There are indeed names in Pracrit prosody for verses from one to sive syllables, and instances of Sanscrit verse containing a higher number than above stated, viz. from twenty-seven, to one less than a thousand. But these constitute distinct classes of metre. Between the limits first

mentioned, twenty-one kinds receive different appellations appropriated to the number of fyllables contained in the stanza.

EACH kind comprehends a great variety of possible metres according to the different modes in which long and short syllables, as well as pauses, may be distributed: and since the sour quarters of each stanzamay be either all alike, or only the alternate similar, or all different, the variety of possible metres is almost infinite. Pingala, however, gives directions for computing the mumber of species, and for finding their places, or that of any single one, in a regular enumeration of them; or conversely the metre of any species of which the place is assigned: and rules have been given even for calculating the space which would be requisite for writing down all the various species.

^{*} Viz. 64 uniform and 4032 half equal.

[†] Viz. 64 uniform; 4032 half equal; and 16,773,120 unequal or diffimilar.

[‡] A mode of calculating the possible varieties of metre is also taught in the Lila'vati, a treatise of arithmetick and geometry by Bha'scara. This truly learned astronomer was also a poet; and his mathematical works are composed in highly polished metre. If the reader figure to himself Euclid in alcaick measure, Diophantus in anapæsts, or the Almagest versified with all the variety of Horatian metre, he will form an adequate notion of this incongruity.

THE different forts, which have been used by poets, are sew in comparison with the vast multitude of possible metres: Still they are too numerous to be all described at sull length. I shall therefore select, as specimens, those sorts of metre, which are most frequently employed, or which require particular notice; referring for the rest to the subjoined tables in which the various kinds are succincily exhibited by single letters descriptive of seet scanned in the Indian and in the Latin mode.

In the best Sanscrit poems, as those of Ca'Lida'sa, Bha'ravi', S'ri' harsha, Ma'gha &c. the poet usually adheres to the same, or at least to similar metre, throughout the whole of one canto; * excepting towards the close of it, where the metre is usually changed in the last two or three stanzas, apparently with the intention of rendering the conclusion more impressive. Sometimes indeed, the metre is more irregular, being changed several times within the same canto, or even altering with every stanza.

THE Raghava pandaviya, by Caver Aja, is an instance of a complete poem, every canto of which exhibits variety of metre. This extraordinary poem is composed with studied ambiguity; so that it may, at the option of the reader, be interpreted as relating the history of Rama and other descendants of Das'arat'ha, or that of Yun'hishirar and other sons of Pa'ndu. The example of this singular style of composition had been set by Suband'hu in the story of Vasavadatta

* Ata was minuted by the months

Writers on rhetorick (as the author of the Sabitya darpan'a and others) lay it down as a maxim, that the metre and style should in general be uniform in each canto: but they admits occasional deviations in regard to the metre.

[†] So the author has called himfelf.

and Ba'nabhatta in his unfinished work entitled Cá lambarí; as is hinted by Cavira'ja. Both these works, which like the Dasacumara of Danni, are prose compositions in poetical language and therefore reckoned among poems, do indeed exhibit continual instances of terms and phrases employed in a double sense; but not, like the Raghava pândaviya, two distinct stories told in the same words.

The following passage will sufficiently explain the manner in which the poem is composed. The first stanza is of the mixed fort of metre named Upajáti, which will be immediately described; the second is in one of the measures composing it, termed Upéndravajra.

मातः त्रियमंद्धिद्द मृत्याः स्वाध्यः श्रामालङ् वाड्यं तेः । असै। प्रजापालनद क्षमावाद जस्यच्छेम न सः प्रमादं ॥ ५०॥ विवि ववीर्यस्पदिवंग तस्पपितः स्राज्यं प्रतिपद्वास्ये । प्रीमयाध्यां भृतग्र प्रमुद्दं स्रह्मिशोभाष्ट्र खमध्यास् ॥ ५०॥

50 Mátuh s riyan fandad'had Indumatyáh,
S'lághyah s'aratcála ivó'du panctéh,
Afau, prajápálanadacíha bhàvád,
Ajafya chacré manafah pramódam.
51. Vichitravíryafya divan gatafya
Pituh fa tájyam patipadya bályé,
Purím Ayódhyám, Dhritráthtra bhadrám,
Sa Hastifóbham suc'ham ad'hyuyáfa.

"HAVING the beauty of his mother Indumati, and admirable like the dewy feafon when it enjoys the beauty of the stars, he (Das'arat'ha) made glad the mind of Aja* by his skill in the protection of the people. Succeeding in youth to the kingdom of his variously valiant father, who departed for heaven, he dwelt happily in the city of Ayôd'hya', which was adorned with elephants and upheld the prosperity of his realm."

OTHERWISE interpreted the same passage signifies

[·] AJA was father, and INDUMATI mother, of DA'SARAT'HA.

The Having the beauty of his mother, and admirable like the dewy feafon, when it enjoys the beauty of the stars and of the moon, he (Pa'ndu) made glad the heart of the unborn god, by his skill in the protection of creatures. Succeeding in youth to the kingdom of his father Victoria virya. who departed for heaven, he dwelt happily in the peaceful city of Hattinapura suspiciously inhabited by Dhritara Shter. 1. 50. and 51.

To proceed with the subject. In general the different sorts of verse, which are contained in the subjoined synoptical table of uniform metre, are used singly, and the stanza is consequently regular: but some of the species, differing little from each other, are intermixed. Thus the Indravajra, measured by a dastyl between two epitrites (3d and 2d), and the Upendravejra, which begins with a disambus, may be mixed in the same stanza. This fort of mixt metre (an example of which has been just now exhibited) is denominated Upajati: it of course admits fourteen variations; or, with the regular stanzas, sixteen. The relief which it affords from the rigorous laws of the uniform stanza, render it a favorite metre with the best poets. It has been much employed by Ca'lida'sa, in whose poem on the birth and marriage of Pa'rati', three out of the seven cantos, which compose it, are in this metre: as are eight out of nineteen in his heroick poem on the glory of the race of Rachu.

THE last mentioned work, which is entitled Raghuvans'a, and is among the most admired compositions in the Sanscrit tongue, contains the history of Ra'ma and of his predecessors and successors from Dili'ra father of Raghu, to Agnivern'a a slothful prince who was succeeded

^{*} VICHITRAVÍRYA was hufband of PA'NDU's mother.

[†] They have diffinct names, which are enumerated in the Ch'handômartan'da, cited by the commentator on the Vritta Retnácara; as Maniprabba, Cantimati &c.

by his widow and posthumous son. The first eight cantos relate chiestly to Raghu, with whose history that of his father Dili'ra, and of his son Aja, is nearly connected. The next eight concern Ra'ma, whose story is in like manner intimately connected with that of his father Das'arate that and of his sons Cus'a and Lava. The three concluding cantos regard the descendants of Cus'a, from Atit'hi to Agnivern'a, both of whom are noticed at considerable length; each being the subject of a single canto, in which their characters are strongly contrasted; while the intermediate princes, to the number of twenty, are crowded into the intervening canto, which is little else than a dry genealogy.

THE adventures of RAMA are too well known to require any detailed notice in this place. The poet has selected the chief circumstances of his story, and narrates them nearly as they are told in the mythological poems and theogonies; but with far greater poetical embellishments. Indeed the general ftyle of the poems esteemed facred, (not excepting from this censure the Ramayan'a of Va'LMI'CI,) is flat, diffuse, and no less deficient in ornament than abundant in repetitions: and it is for this reason, that examples have been selected, for the present essay, exclusively from the celebrated prophane poems. RA'MA's achievements have been fung by the prophane as frequently as by the facred poets. His story occupies a confiderable place in many of the Purán'as, and is the fole object of VA'LMici's poem, and of another entitled Ad'hyátma Rámáyan'a, which is afcribed to VYA'SA. A fragment of a Rámáyan'a attributed to BAUD'HA'YANA is current in the fouthern part of the Indian peninfula; and the great philosophical poem, usually cited under the title of Yoga vasishi'ha, is a part of a Rámáyan'a, comprising the education of the devout hero. Among prophane poems on the same subject, the Raghu-vans'a and Bhut't'icávya, with the Rág'hava pándavíya before mentioned, are the most esteemed in Sanscrit, as the Rámáyan'a of Tulas'sda's and Rámachandrich of Ce'savada's are in Hindí. The minor poets, who have employed themselves on the same topick, both in Sanscrit and in the Prácrit and provincial dialects, are by far too numerous to be here specified.

The other poem of Ca'lida's a abovementioned, though entitled Cumara sambhava or origin of Cuma'ra (who is son of Pa'rvati), closes
with Pa'rvati's wedding. It has the appearance of being incomplete a
and a tradition runs, that it originally consisted of twenty-two books.
However, it relates the birth of the goddess as daughter of mount
Hima'laya; and celebrates the religious austerities by which she gained
Siva for her husband; after Candarpa, or Cupid, had failed in inspiring Siva with a passion for her, and had perished (for the time) by the
fiery wrath of the god. The personages, not excepting her father, the
snowy mountain, are described with human manners and the human
form, and with an exact observance of Indian costume.

The following stanza from a poem in mixed language, upon the same subject (the birth of Cuma'ra), is selected as a surther example of Upajáti metre, and as a specimen of the manner in which Sanscrit and Prácrit are sometimes intermixed. It is quoted for that purpose in the Pingala-vritti.

बालःकुमारः सक मुंडधारी उपाअसीणा स्मु सङ्गणारी। अहर्णि ग्रंखा इविवंभिखारी गतिभविची किलकासमारी॥

Bálah Cumárah; sa ch'ha-mun'da-d'hári. Upáä-híná hamu écca-n'ári. Ahar-n'is'am c'hái visham bhic'hári. Gatir bhavitrí cila cá hamári.

DE'VI', grieving over her infant fon Cuma'r A or Scanna, fays,

"The child is an infant, but he has fix mouths [to be fed]: I am a helplefs, folltary; female: night and day my mendicant hufband fwallows poifon; what refource is there, alas, for me?"

An instance of the same measure used in the Marahat'ta (Maharatha tra) language is quoted by the commentator on the Vritta-retnátaran It appears, however, from the thymes, that the verse is there subdivided by a pause after the 5th syllable.

The variety of the Upajati metre is increased by the further mixture of two sorts of lambic measure named Vans'ast'ha and Indravans'a. The first is composed of a choriambus between two dilambis in the second, the first dissyllable is a sponder instead of an lambic. Instances of this mixt metre occur in Valunci's Rámáyan'a,* in the 'Sri bhágavata Purána t and in a metaphysical and theological drama entitled Prabód'ha Chandródaya.

THE following example from the drama now mentioned, exhibits the combination of those four forts of metre in a single stanza.

Vidyá-prabódhódaya-janma-bhúmir, Váránasi mucti-puri niratyayá Atah culóchch'héda-vid'him vid'hitsur nivastum atréch'hati nityam éva sah.

विद्याप्यवेशिय यजन्मभूमिर्वाग्णसोमुनिपुरीनिर्त्यया। अतः जुलो च्हेर् विधिविधित्सुनि वस्तु मनेक्निनित्यमे वसः॥

"Varan'asi, the indestructible city of eternal falvation, is the native land of science and intellect: hence, one desirous of observing the precepts by which a continuance of family is cut off, [and final beatitude obtained], is solicitous to dwell there continually."

^{*} In a paffage of the Sundara Cánda,

[†] Book roth.

[‡] Among the persons of this drama are the passions and vices (pride, anger, avarice &c) with the virtues, (as pity and patience;) and other abstract notions; some of which constitute very strange personifications. The author was CRISHN'A PANDITA.

The same term (Upajáti), as descriptive of mixt metre, has been also applied to the intermixture of two spondaic measures named Vátórmi and Sálini: which are very similar, the first having an anapæst, the other a cretic, between a dispondeus and 2d epitritus, with a pause at the fourth syllable. Analogous to the first of these are the Rathóddhatá, and Swágatá measured by an anapæst preceded by two trochees, and sollowed in the one by two iambics; and in the other by an ionic. These and the preceding are metres in very common use with the best poets: and instances of them, will occur in subsequent extracts chosen for the sake of other measures with which they are joined.

The several sorts of metre above described are, like the two last, also employed separately: for instance the first cantos of the Naishadhiya of S'Ri'HARSHA, and Cirátárjuníya of BHA'RAVÍ, as well as that of the epick poem of MA'GHA, are in the iambic measure called Vans'ast'ha; which recurs again in other parts of the same poems: especially in the Ciráta, of which sour books out of eighteen are in this measure.

The first of the works just now mentioned is a poem in twenty-two cantos on the marriage of Nala king of Nishad'ha, and Damayantí daughter of Bhíma king of Viderbha. It is a favourite poem on a favourite subject: and though confessedly not free from faults, is by many esteemed the most beautiful composition in the Sanscrit language. The marriage of Nala and Damayantí, his loss of his kingdom by gaming, through the fraudulent devices of Cali disguised in the human form, his desertion of his wife and his transformation, her distresses, her discovery of him, and his restoration to his proper form and to his throne, are related in another poem already noticed under the title of

Nalódaya: their adventures likewise constitute an episode of the Mahá-bhárata,* and are the subject of a novel in prose and verse, by Tri-vicrama that't'a, entitled Nalachampú + or Damayantí cat'há. Sríhar-sha's poem, though containing much beautiful poetry according to the Indian taste, is very barren of incident. It brings the story no further than the marriage of Nala and Damayantí, and the description of their mutual affection and happiness which continues notwithstanding the machinations of Cali. The romantick and interesting adventures subsequent to the marriage, as told in the Nalódaya, are here wholly omitted: while the poet, with a degree of licentiousness, which is but too well accommodated to the taste of his countrymen, indulges in glowing descriptions of sensual love.

The following example of Vans'ast'ha metre is from the introduction of the Naishad'hiya. To render the author's meaning intelligible, it may be necessary to premise, that the mere celebrating of NALA and DAMAYANTI is reckoned sufficient to remove the taint of a sinful age; and is so declared in a passage of the Mahábhárata.

Vans'ast'ha metre.

Pavitram atrátanuté jagad yugé, smrítá, rasa-cshálanayéva yat, cat'há; Cat'ham na sá mad giram, ávilám api, swasévinsm éva, pavitrayishyati.

> पविवाननाति जगरागे स्मृतारस्थालनयेवयन्त्रया। कथनसा महिरमाविलामपि स्तरेविनीमेवपविच्यिकिता।

"How should a story, which, being remembered, purifies the world in the present age, as it were by an actual ablution, fail of purifying my voice, however faulty, when employed on this narration," 1. 3.

^{*} From the 53d to the 79th chapters of the Vanaparva.

⁴ A composition, in which profe and verse are intermixed, is called Champu.

In the following passage from Bha'ravi's Cirâtârjuniya, the last stanza is an example of the Máliní metre; and the preceding one, of the Pushpitágrá; which will be noticed further on: all the rest are in the Vans'ast'ha measure. It is the close of a reproachful speech of Drau-padí to her eldest husband Yud'hisht"hira, inciting him to break the compact with Duryód'hana, by which the Pa'ndavas had engaged to remain twelve years in exile.

इमामक्वेर् नता वनीं धियं विचि च क्रपाः खलु चिन् वृन्यः। विचिन्न यन्साभ वदापदं पर्ग हे जिन्नेनः यस्भेममाध्यः ॥ ३७॥ पुग्धिक्ष छः श्यनंमस्थिनंविके ध्यस्यः स्त्रितगीतिमङ्गलेः। अद सदकीमधिए व्यस्यलीं जहा सिनिदाम शिवे:श्वाकृतै: ॥ ३ = ॥ अनार्तंयामिणपीठशायिनावरञ्जयद्राजशिरः स्वजारजः। निवीद तसी चर्यी वनेषुतेमगडिजालू निश्चेषुवर्हिषाम् ॥ ३० ॥ प्रेपनी तंन्हयरा मणीयवं दिजातिशे वेणयह तट न्धसा । तदद्वितवन्यफलाश्निः परंपरेतिकार्श्यश् सासमंबपः॥ ४०॥ दिषत्रिमिनायदियंदशा ततः सम्लम्ना लयतीवमेमनः। परेर पर्छा सिनवीर्ट्य संपदापरभंवा कुन्स व स्वमानिनाम्॥ ४ ९॥ विहायशानिंत्रपथामतत्यनः प्रसीट्सन्धेहि वधायविद्विषाम्। वजिल्याच्नवधूयनिस्पृद्याः श्मेनसिद्धिं मनवा नभूमृतः॥ ४२॥ परः सर्धामवतं यशेधनाः सुदः सहं प्राप्तनिकारमी दृशं। भवादृशास्त्रद्धिनुवितेपर्विर्श्यास्नास्तामनस्तिता॥ ४३॥ अवध्मामेवनिरस्विक्रमिस्रयपर्योषस्यस्यस्थनं। विहायलक्ष्मीपितलक्षमताम्बंजटाधरः स्न्जुङ्गधीह्पाववं॥ ४४॥ न समयपरि रक्षणंक्षमनेनिक्तिपरेषपरिधामः। अरिवृचि जयार्थिनः क्षितीशाबिद्धतिसे। प्रधिस न्धिट्षणानि ॥ ४५॥ विधिसमयनियागाही प्रिसंहार जिह्नांशियल व समगा धेम ग्रमापत्ययाधी । रिप्तिमिरमुदस्थादीयमानंदिनादै।दिनक्षतिमवलक्षीस्लासमभेतुभूयः॥ ४६॥

" I do not comprehend this thy prudence; for opinions are indeed various: but anguish forces itself on my mind, when considering thy extreme distress. Thou, who didst formerly repose on a costly couch, and wert wakened with auspicious praise and song, now sleepest on the ground strewed with pungent grafs, and art roused from thy slumbers by the dismal howlings of shakals. Thy feet, which, resting on a footstool adorned with precious stones, were tinged by the dust of the blossoms in the chaplets worn by prostrate monarchs, now tread the wilderness where the tips of sharp grass are cropped by the teeth of stags. Thy person, O king, which formerly gained beauty by feeding on the bleffed remnant of the feaft given to holy men, now wastes with thy glory, while thou feedest on the fruits of the forest. That thou art reduced to this condition by the act of thy enemies, harrows up my foul. To the valiant, whose courage is unsubdued by the foe, misfortune is a triumph. Relinquishing peace, O king, be active and rouse thy energy, for the slaughter of thy foes. Placid faints, not kings, attain perfection, difarming their enemies by patience. If perfons fuch as thee, whose honour is their wealth, who are leaders of the brave, submit to fuch insupportable diffrace, then is magnanimity destroyed without resource. If divested of courage, thou deem submission the means of lasting ease, then quit thy bow, the symbol of a fovereign, and, becoming a hermit, feed here with oblations the purifying flame. Adherence to the compact is not good for thee, valiant prince, while thy foes compass thy difgrace: for kings, ambitious of victory, feruple not the use of stratagem in treating with enemies. Thee, who by force of fate and time art now funk in the deep ocean of calamity, dull with diminished splendour, and slow to enterprise, may fortune again attend, as thou risest like the fun with the new born day, dispelling hostile gloom." 1. 37 .- 46.

To return to the enumeration of analogous forts of metre. A true foondaic metre, named Vidyunmálá, confisting of four spondees, with a pause in the middle of the verse which virtually divides the tetrastich into a stanza of eight, is often mixed, as before observed, with the metre termed Gityáryá, containing the same quantity in a greater number of syllables.

OTHER measures also containing the same quantity, but in a greater number of syllables, occur among the species of uniform metre. The subjoined note * exhibits several species, in which the verse is divided

^{*} Rucmavati or Champacamālā composed of alternate dactyls and spondees; Matiā measured by three spondees with four short syllables before the last; Pan'ava containing a spondee and

by the position of the pauses into two parts equal in quantity, and some of them equal in number of syllables. Further instances are also stated in the notes, of metre containing the same quantity similarly reducible to equal feet.* Some of the species of metre, which contain a greater number of syllables, are reducible, in conformity with the position of their pauses, to this class.†

ALL these varieties of metre have a great analogy to the Mátrásamaca and other species before described, which similarly contain the quantity of 16 short syllables or 8 long; reducible to sour equal feet.

Among the kinds of metre described at the soot of the preceding paragraphs, the Dód'haca, Tótaca and Pramitäcshará are the most common. A stanza in the anapæstic measure named Pramitácshará, in which each verse exhibits alliteration at its close, has been already quoted from the sisth canto of the Ciratájuníya of Bha'raví. The specimen of anapæstic measure called Tótaca, which will be here cited from the close of the Nalódaya, is a surther instance of alliteration introduced into every stanza of this singular poem.

TOT'ACA.

Claudais , tans.

Ati-fanhatir afya vanéshu s'ucham padam apadam apad ama' 'padama'. Suc'hadan cha yat'haiva jana'ya Harim yatam a'yatama'ya tam a'yata Ma'.

dactyl, and an anapæst and spondee; Bhramaravilasitá measured by two spondees, four short syllables and an anapæst; Jalódd'hatagatá composed of alternate amphibrachys and anapæsts: and several other species; as Cusuma vichitra, Manigun'a nicara, Cudmala danti, Lalaná &c.

^{*} Déd'haca composed of three dactyls and à spondee; Tôtaca containing sour anapæsts; Pramitácshara, measured by three anapæsts with an amphibrachys for the second sout; Málá, a species of Chandravartá, and some others.

[†] Thus Mattacrida combines two simple kinds, the Vidyunmala and Chandravarta. So Craunchapada, is composed of two species beforementioned, the Champacamala and Munigun'a.

अरिसंहतिरस्वनेषुश्रुचीपदमापदमापदमापदमा। अस्ट्रंचयशेवजनायहरियतमायतमायतमायतमा। ४६॥

THE luckless and despondent croud of his foes found in the forests a calamitous place of forcew; and prosperity was constant to him, who gave happiness to a sincerely affectionate people, as she clings to HARI, who blesses the guileless." 4. 46,

It has been before said, that, in several forts of metre, the pauses would justify the division of the stanza into a greater number of verses than four: and instances have been shown, where either the number of syllables, or the quantity, would be the same in each verse of a stanza of eight, twelve, or even sixteen short verses. In the following species of metre, the verses of the stanza, subdivided according to the pauses, are unequal.

THE Sárdúlavicri dita, a very common metre, of which examples occur in the former volumes of Afiatick Refearches,* is a tetrastich in which the verse consists of nineteen syllables divided by the pause into portions of twelve and seven syllables respectively. The following instance of this metre is from the close of the first book of Ma'gha's epick poem; where Na'reda, having delivered a message from Indra, inciting Crishn'a to war with Sis'upa'la, king of the Chédis, departs, leaving the hero highly incensed against his kinsman and enemy.

ओमित्युक्तवते।ऽधशाकिणइतिव्याहृत्यवाचनभस्तिस्तृत्वितिपुरः स्तरम्नाविद्धेःश्रियंविधिति। श्र्ष्णामनिश्विना श्रिम्ननः ब्रुद्धस्येद्यं प्रतिवे। सीवभुक्टीक् लेनव्द नेवेत् स्वताकस्यदम्॥ १७५ ॥

O'm ityuctavato't'ha fa'rngin'a, iti Vyahritya vachan, nabhas Tafminn utpatité purah fura-munav Indoh s'riyam vibhrati,

^{*} Vol. I. p. 279.

S'atrôn'a'm anis'am vinás'a pis'unah,
Crudd'hafya Chaidyam prati,
Vyómníva, bhrucutí ch'haléna, vadané
Cétus' chacár'áspadam,

WHILE the divine fage, having delivered this discourse, ascended the sky, bearing on his front the radiance of the moon; the hero, armed with a bow, uttered an expression of affent; and the frown, which found place on his brow wreakful against the prince of the Chedis, was as a portent in the heavens, foretokening destruction of his foes." 1. 75.

THE Mandacranta, which is the metre in which the Meg'haduta is composed, has pause subdividing each verse of seventeen syllables into three portions, containing sour, six and seven syllables respectively: viz. two spondees; two pyrrichii and an iambic; a cretic, trochee and spondee. The Harin's differs from the preceding in transposing the first and second portions of the verse and making the third consist of an anapæst between two iambics. An instance of it will be subsequently exhibited.

The example of the first mentioned metre, here inserted, is from the Mégha-dúta. This elegant little poem, attributed as before observed to Ca'Lida's a, and comprising no more than 116 stanzas, supposes a Yacsha or attendant of Cuve'ra to have been separated from a beloved wise by an imprecation of the god Cuve'ra, who was irritated by the negligence of the attendant in suffering the celestial garden to be trodden down by Indra's elephant. The distracted demigod, banished from heaven to the earth, where he takes his abode on a hill on which Ra'ma once sojourned, entreats a passing cloud to convey an affectionate message to his wife.

[·] Called Ramagiri.

Mandácrántá metre.

जातंवरोभुवनविदिते पुष्कएव ने कानां जाना मिल्वं प्रकृतिपुर्षं कामरूपंमधानः ।
तेनार्थित्वं त्वियविधिवराह् रबन्धुर्गेनेऽइंयाज्ञामाघा वर्मधिगुणे नाधमेलअकामा ॥ इ संतप्तानां त्व मसिश्रणं तत्ययोदियायाः संदेशं मेल्रधन पित क्रोधिवस्त्रिषितस्य ।
गन्तव्यति वस्तिर लका नामयक्षेस्वरणांवाह्यान्यित्वर्रिश्रस्यन्द्रकाधानस्यर्था ॥ ७॥

- 6. Játam vans'é, bhuvana-vidité, pushcarávartacánám, Jánámi twám, pracriti-purushan, cámarúpam, Maghónah. Téná' rt'hitwan, twayi, vid'hi-vasad dúraband'hur, gató'ham. Yáchnyá móghá varam ad'higúné, n'ád'hamé labd'hacámá.
- 7. Santaptánán twam afi s'aran'an; tat, payóda, priyáyáh
 Sandés'am mé hara, d'hanapati-cród'ha-vis'léfhitafya.
 Gantavyá té vafatir Alacá náma yacshés'warán'am.
 Váhyódyána-st'hita-hara-s'iras'-chandricá-d'hauta-harmyá.

"I know thee sprung from the celebrated race of diluvian clouds, a minister of Indra, who dost assume any form at pleasure: to thee I become an humble suitor, being separated by the power of sate from my beloved spouse: a request preserved in vain to the noble is better than successful solicitation to the vile. Thou art the resuge of the instance: therefore do thou, O cloud, convey to my beloved a message from me who am banished by the wrath of the god of riches. Thou must repair to Alaca the abode of the lord of Yacshas, a palace of which the walls are whitened by the moonbeams from the crescent on the head of S'tya, who seems fixed in the grove without." 6 and 7.

THE S'ic'harin'i, also a common metre, distributes seventeen syllables into portions of six and eleven; an iambic and two spondees in the one, and a tribrachys, anapæst, dactyl, and iambic in the other. This is the metre of the Ananda lahari, a hymn of which Sancara'cha'ra is the reputed author, and which is addressed to S'IVA', the Sacti or energy of S'IVA or MAHA'DE'VA. It comprises a hundred stanzas of orthodox poetry held in great estimation by the devout followers of Sancara: the devotional poetry of the Hindus does not usually employ metre of so high an order.

EXAMPLES of this measure will be shown in a subsequent extract from a work of a very different kind: a drama, by Bhavabhúti entitled Ma'lati Ma'd'hava.

THE Málini, confisting of fifteen syllables, places two tribrachys and a spondee in the one subdivided portion of the verse, and a cretic, trochee and spondee in the other. An instance of it occurs in a sormer extract from the Cirátárjuniya. The sollowing example of this metre is from the drama abovementioned. The passage is descriptive of a love-sick maid.

Máliní metre.

परिमृदिनमृणालीस्नान मङ्गं प्रवृत्तिः कश्चमिपरिवारपार्थनाभिः जियास । कलयति विद्यां में विकलं कस्यलक्ष्मीमभिनवकरिद लक्ट्रिकानाः कपोसः ॥ २२॥

Parimridita-mrin'álí-mla'nam angam ; pravrittih
Cat'ham api paríva'ra-prárt'hanábhih criyáfu.
Calayati cha himáns'ór nifhealancasya laefhmím
Abhinava-cari-danta-cheh'héda-cántah capólah.

officents of the

'Her person is weary like bruised threads of a lotos; scarcely can the earnest intreaties of her attendants incite her to any exertion: her cheek, pale as new wrought ivory, emulates the beauty of a spotless moon.' 2. 22,

THE Praharshini, containing thirteen fyllables, separates a molossus, from two pyrrichii, as many trochees and a spondee. An example of it will be shown in a subsequent extract from Bhavabhu'ti's drama.

The Ruchirá, with the same number of syllables, disjoins two iambics, from two pyrrichii, a trochee and cretic. The opening stanza of the Bhatticávya may serve as an instance of this metre. The poem bearing that title, is on the subject of the adventures of Rama: it is comprised in 22 cantos. Being composed purposely for the practical illustration of grammar, it exhibits a studied variety of diction in which words anoma-

lously instead are most frequent. The style, however, is neither obscure nor inelegant: and the poem is reckoned among the classical compositions in the Sanscrit language. The author was BHARTRIHARI: not, as might be supposed from the name, the celebrated brother of Vicrama'-Ditya: but a grammarian and poet, who was son of S'ríd'HARA SWA'MÍ, as we are informed by one of his scholiasts Vidya' vinóde,

Ruchirá metre.

अभू ज्ञृयो विनुधस्खः परं तपः श्रुता न्वितोट् श्र्यइन्युटा हृतः । गुणैर्वरं भुवन हितच्छ् लेनयं स्नातनः पितर मुपाग मत्स्यम् ॥ ९ ॥

Abhun nrīpo, vibud'ha-sac'hah, parantapah, s'rutanwito, Das'arat'ha ityudahritah, Gunair varam, bhuvana-hita-chch'halena, yam Sanatanah pitaram upagamat swayam.

'He, whom the eternal chose for a father, that he might benefit the world [in a humanform,] was a king, a friend of the gods, a discomsiter of foes, and versed in science: hisname was Das'arat'ha. He was a prince eminent for his virtues.' 1. 1.

THE Suvadaná distributes twenty syllables in three portions of the verse: one containing two spondees and a bacchius; the second four short syllables and an anapæst; the third a spondee, pyrrichius, and iambic. The Sragd'hará, a very common metre, differs from it, only in the third portion of the verse, which contains a trochee, spondee and bacchius: but here the number of syllables in every subdivision is equal: viz. seven. In all the other instances above described, the subdivisions of the regular verses were unequal.

THE following forts of metre, which are very usually employed, have no pauses but at the close of the verse. The Druta vilambitá contains in each verse two anapæsts preceded by three short syllables and a long one, and followed by a trochee. Instances of this measure have been already cited in an extract from the Cirátárjuníya. The Sragvini is

measured by a trochee, spondee and iambic repeated; as the Bhujangaprayátá is by a similar repetition of an iambic, trochee and spondee. Both forts of metre are of frequent occurrence in classick poems.

THE Vasantatilaca, which confilts of a spondee, iambic, tribrachys, dactyl, trochee and spondee, is one of the metres in most general use. It commonly occurs as a change from other metre. But the whole 5th canto of Ma'gha's poem is in this measure. The Chaura panchásicá, a short poem before described, is in the same metre, and so is a pathetick elegy on the death of a beloved wife which occurs in the Bhámaní vilása a collection of miscellaneous poetry by Jaganna'tha Pandita ra'ja. It begins thus:

Vasantatilaca.

देविपएमवर् न एालिनिसंतजातेयाते चसंप्रतिदिवंप्रतिबन्धुराने । कसीमनः कष्रियतासिनिजामबस्थांकद्शीतलैः श्मियताव चनैसाबाधि ॥

Since fate, alas! is become adverse, and the gem of kindred is departed towards heaven; to whom, O my soul, wilt thou tell thy grief? and who will appeale thy anguish with refreshing words?

The following passage from some Hindi poem, is quoted in Na'RA'Y-AN'A BHAT'T'A's commentary on the Vritta Retnácara as a specimen of this metre in the Cányacubja dialect.

क चू पेरू पजवर्तेनुन्हली ख्रा छाले। को पका महम की बज्जपीर छोजी। जी भेटिकेंबिर हपीर नहा उमेरी यें मां तिटू निपठई कहिवा तंगापी॥

Candarpa-rúpa jaba tén tumha línha, Críshn'a! Lócópacáma hama hín, bahu-píra, ch'hórí.
Jau bhét'icain viraha-píra nasáü mérí. Yain bhénti dúti path'ái, cahi báta, Gópí.*

^{*} Short vowels, when final, are so faintly sounded, that they are usually omitted in writing the provincial languages of *India* in Roman character. But they have been here preserved at the close of words; being necessary, as in Sanscrit, for correctly exhibiting the metre.

CRISHNA, fince thou didft affume the form of Cupid, I have neglected worldly affairs, fuffering much anxiety. Relieve by thy presence the pain of separation which I endure. Such was the meffage, with which the Gori dispatched her embaffadreis." Duchilon to a netter a

V Sloca or Vactra.

THE most common Sanscrit metre is the stanza of four verses containing eight fyllables each: and denominated from the name of the class, Anushtubb. Several species of it have been described. Two very simple kinds of it occur, confifting of fambic, or trochaic feet exclusively.* The rest are included in one general defignation, † But several analogous species are comprehended under the denomination of Vactra. Here the laws of the metre, leaving only the first and eighth fyllables indeterminate, require either a bacchius or an amphibrachys ! before the eighth syllable, and forbid an anapæst or tribrachys after the first; as also in the 2d and 4th verses of the stanza, an amphimacer. A variety of this metre introduces a tribrachys before the 8th, fyllable in the aft and 3d verses, and a bacchius in the 2d and 4th. And another fort, I which admits five varieties, requires the penultimate syllable to be short in the 2d and 4th werfes; and introduces before the 8th fyllable of the 1st and 3d verses, a dactyl, anapæst, tribrachys, amphimacer or molossus.

^{*} The first termed Pramani, the other Samani. Considered as a species of uniform metre, the first is also named Nagaswarupini or Matallica; and the second is denominated Mallica. There is also a regular measure which alternates trochees and iambics, and is denominated Mánavacácridá: and another, named Chitrapadá, confisting of two dactyls and a spondee.

The metre is named Pathya when an amphibrachys is introduced in the 2d and 4th verfes; fome fay in the 1st and 3d.

[|] Chapala.

Wipula:

THE metre, which is most in use, is one of the species now described, in which the number of fyllables is determinate (viz. 8); but the quantity variable. Ca'LIDA'SA appropriates to this metre the term Sloca (abbreviated from Anushtubh s'loca); and directs, that the fifth syllable of each verse be short; the fixth, long; and the seventh alternately long and short. The mythological poems under the title of Pura'n'a, and the metrical treatifes on law and other sciences, are almost entirely compofed in this easy verse: with a sparing intermixture of other analogous forts, and with the still rarer introduction of other kinds of metre. The varieties of the Anushtubh S'loco, which most frequently occur, make the 5th, 6th and 7th fyllables of the 1st and 3d verse all long or all short; or else the 5th long with 6th and 7th short. Thus varied, it is much used by the best poets. Ca'LIDA'SA has employed it in the 2d and 6 h cantos of his poem entitled Cumara sambhava; and in the 1st, 4th and feveral others of the Raghuvans'a. The 2d and 19th cantos of MA'G'HA's poem are in this metre, and so is the 11th of the Ciratarjuniya amirtaneasso:

The examples, here subjoined, are from Ma'c'ha's poem. One passing is part of a speech of Balarama to Crishn'a, urging him to the immediate commencement of hostilities against S'is'upa'la: the other is extracted from Udd'hava's reply, dissuading Crishna from instant war and advising his previous compliance with Yud'hisht'hira's invitation to assist at a solemn sacrifice which the king was on the point of celebrating at Indiaprast'ha.

सल्मरीयान् म नृक्षक्षतिमस्त्रीहिकार्य्यतः । स्थानामिन्नीमिनेच सहजप्रक्षनाविष ॥ ३६ ॥ उपकर्नारिणासिनिमिनेणा पकारिणा । अपनाग्णकारेहिकार्यं सक्षणमेनवाः ॥ ३७ ॥ त्वयाविष्ठक नक्षेद्रीक् विभणीहरनाहरे । ब्रमून समूनंहि महद्भित हे दिया ॥ ३० ॥ विभिन्न के जित्त महित्य प्रतिमाम्। प्रोधिन विभिन्न कि विभिन्न के विभिन्न के

BALARA'MA speaks, 'A proved enemy, and a tried friend, are most to be regarded; for they are known by their actions: others, prefumed to be fo, from temper or affinity, may be found in the end to be friend or foe. Peace may be maintained with a natural enemy, who confers benefits; not with a prefumptive friend, who commits outrages: kindness, or injury, is the proper test of both. The king of the Chédis was offended, O HARI, by thy seizure of RUCMINI: for woman is the chief cause, that the tree of discord takes root. Whilst thou wert engaged in subduing the offspring of the earth, he besieged this city, as darkness encircles the fkirts of Mêru, while the fun is remote. To hint, that he ravilhed the wife of VABHRU is enough: the narration of crimes is too difgustful. Thus aggrieved by thee, and having much injured us, the fon of S'RUTAS'RAVAS is an enemy demonstrated by deeds. The man, who is negligent, while an enraged foe meditates aggressions, sleeps in the wind with fire under his arm. What forbearing man, who would cheerfully diffemble a flight and fingle injury, can patiently endure repeated wrongs. At other times, patience becomes a man; and pudency, a woman: but valour befits the infulted warriour; as modesty should be laid aside by a woman in the nuptial bed. Whoever lives, (may none fo live!) tortured by the pain of infults from his enemy; would that he had ne'er been born, vainly giving his mother anguish. Dust, which, kicked by the foot of the traveller, rifes and fettles on his head, is lefs contemptible than the dastard, who is contented under wrongs. 2. 36-46.

UDD'HAVA in reply addressed to CRISHN'A.

समावलामितमरक्षमस्त्रन्थंसनान्थवः। सहायमध्यर् धुर्धभएजोविचक्षते॥ १०३॥ महात्माने।ऽनुमृह्वानिभजमाना निर्मानि। सपत्नीःप्रापयन्त्रविधिन्धवेतन्यनिस्त्राः॥ १०४॥ विस् द्विक्षान्त्रां विकासिक् येऽरिष्ठ। कृत्रानुकृतिद्व साधारु हृद्दे।विमनीकृताः॥ १०५॥ मन्यतेऽरिवधः श्रेयान्प्रीनवेमक्तामिति। पुरीडाण् मृजामिष्टमिष्टिं वर्षम् साधारु हृद्दे।विमनीकृताः॥ १०५॥ मन्यतेऽरिवधः श्रेयान्प्रीनवेमक्तामिति। पुरीडाण् मृजामिष्टमिष्टिं वर्षम् साधारु हृद्दे।विमनीकृताः॥ १०५॥ मन्यतेऽरिवधः श्रेयान्प्रीनवेमक्तामिति। पुरीडाण् मृजामिष्टमिष्टिं वर्षम् साधारु हृद्दे।विमनीकृति । श्रेयान्यत्रने साम्यान्यत्रमानिक्षः सिक्तिकृति ॥ १०५॥ सिक्यान्यत्र स्वाप्त्रमानिक। स्वयाविष्ठमप्राप्तान्वावांभवान् प्रवाप्तिमनः सोप्त्रवार्यवाव्यावांभवान् प्रवाप्तिमनः स्वत्याव्यावावांभवान् प्रवाप्त्रवार्यावावांभवान् प्रवाप्तिमनः सोप्त्रवार्यावावांभवान् प्रवाप्तिमनः साम्यविष्तिक्षावांभवान् प्रवाप्तिक्षावांभवान् प्रवाप्तिक्षावांभवान् प्रवाप्तिक्षावांभवान् प्रवाप्तिक्षावांभवान् प्रवाप्तिक्षावांभवान् प्रवाप्तिक्षावांभवान् प्रवाप्तिक्षावांभवान् प्रवापतिक्षावांभवान् प्रवापतिक्षावांभवान् प्रवापतिक्षावांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान्याः स्वापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् प्रवापतिकांभवान् स्वापतिकांभवान्य

The just King, and his kinfmen, relying on thee for an affociate capable of fuftaining the heaviest burden, are willing to undertake the task of a solemn sacrifice. Even to enemies, who court them, the magnanimous show kindness; as rivers convey to the ocean the rival torrents from the mountains. Violence, used against foes by the strong, is at length successful: but friends, once offended, are not easily reconeiled even by compliances. Thou thinkest, that the slaughter of the foe will most gratify the inhabitants of heaven: but far better is it to present offerings, which are defired by the deities, who devour oblations. What the virtuous offer, under the name of ambrofia, in flames, whose tongues are holy prayers, was the splendid ornament of the ocean churned by the mountain Mandara. The promife made by thee to thy father's venerable fifter, to forgive her fon a hundred offences, should be strictly observed. Let the intellect of a good man be sharp without wounding; let his actions be vigorous, but conciliatory; let his mind be warm without inflaming; and let his word, when he speaks, be rigidly maintained. Before the appointed hour, even thou art not able to destroy the tyrant, on whom thyself conferred that boon; no more than the fun can prematurely close the day, which he himself enlightens. 2.103-110.

V. Compound metre.

Instances of compound metre have been already exhibited under the designation of Upajáti, consisting of two kinds of simple metre variously combined: two of these combinations are repeated under the head of half equal metre with the contrasted names of Achyánací and Viparítáchyánací. Other species of metre, belonging to this class, are in use among eminent poets: particularly the Pushpitágra', and Aparavactra'. In the first, both verses are terminated by two trochees and a spondee, and begin with four short syllables, one verse interposing a pyrrichius, and the other a dactyl. In the next species, both verses are terminated by three iambics, and begin like the preceding with sour short syllables; but one verse interposes a single short syllable, and the other a trochee,

Examples of the first of these mixed measures are very common. One instance has been already exhibited in a quotation from the 1st

whole tenth canto of the same poem, and the seventh of Ma'GHA's death of S'is'UFA'LA are in this mixt metre. The second is less common: but an instance occurs in the 18th canto of the Cira'ta'rjuniya.

The close of the 9th canto of Ca'Lida's a's Raghuvans'a, exhibiting a variety of metre, in which two of the species now mentioned are included, is here cited for the sake of these and of other species which have been before described. The subject is Das'aratha's hunt, in which he slew the hermit's son: a story well known to the readers of the Ra'ma'yan'a:

इ निविस्मान्य करणीमात्मतः सचिवाव लिचित धुरं न एधिपम् । परिवृद्धन् गमनुबन्धसेवयाम् गया जस्र चन्रे व कामिनी ॥ ७४॥ संचितिन समान संव्यानित मही यशि पिकासनायाम् । नर् पतिर तिवाह्यावभूव कविद् समेत परि क्दित्वमाम्॥ ७५ ॥ उपसिस्मजव्य वर्णत् नैः पद्पट इक्विनिर्मितिनीनित्दः । अर्मनम सुरस्तिणम् सन् -बिह्म बिह् जिनवन्दि मङ्ग लाति॥ ७६।॥ आव्यजानु र रे विशेतवकी विभिनेपार्श्व र र कद्यमाणः। अमफेन मुनान प सिगा डानामसंबापनदींनुरङ्गमेण॥ ७७॥ कूमपुरणभवःयट्ठ् बैरुक्व रनिनदे स्मित्ससः। नवस्थिरद्व हिनशंकी शब्पातितिमिधंविससर्जे॥ ७ ॥ नृपतेः प्रतिविद्धमेवतन् कृतवात्पिङ्कि रथीविलं ख्यायन्। अपयेप द्मर्पयनि हिथुनव नीऽपिर्जानिमीचिताः ॥ ७० ॥ हानानेनिकन्दिनमाकस्य विषय् सास्यान्वस्य त्वेनसग्ढप्भवंसः । श्रम्यपाने देहस्तु मंमुनिप्चनापाद् नः श्च्यद्वासी द्विनिपापि ॥ ५० ॥ तेनावनीर्यन्रगात् प्रविनान्वयेनपृष्टान्ययः सजनन्यनिष सदे दः । तसीं ब नेतर्तपस्तिस्तः स्व ल द्विरानानमसर्पदेश्व ययाचभूव ॥ त्र ॥ तत्रीद्विष्यतमनु इत एक्यमेवपिवेष्म काश्मवस्त्रवृशेर्तिनाव। ताम्बानयागतमुपेत्वतमेकपुत्रमञ्जातनः स्वतिनंनुपनिः श्रवंस ॥ पर् ॥ नेत् मानोव छवि चयाशियाः प्रचर्त्तं श्च्यंतिवानमुद् हार्यनामुरसाः । सेाभून्परुष्ठर्यभूमिपनि श्श्यवहसार्यि नैर्नयनवासिभरे ववृद्धः ॥ ५३॥ दिखानामास्यतिभवान पिप्त श्रीका द् नोव यस्य हिमवैनितमुक्त वना । आकानपूर्वमिवमुक्त विधेमुजां प्रीवाच के श् सपितः प्रथमाप स्थः ॥ च्यु ॥ श्पोप्यद् छन नयान न पद्मश्मेनानु ग्रहीभग वनामविपानिनार्थं । कृष्यां द् इत्रपिख्निक्षि निमिन्धने झेवीज प्रवेहज न नों न्य जना क होति ॥ ५ ५ ॥ इ व्यंग ने गत एमा किम यंवि धना वधा सबे वा मिहिने व सुधाधिये न । स्थान् इताश् नवतः समुनिर्ववाचेषुचंपरस्यमनुगन्तंमनाः सद्रः ॥ ४६ ॥ प्राप्तानुगः सपदिशासन्मस्य सास्यादा यानकविनुप्रधृतिर्तिनृतः। सानानिविष्टपद्मान्नविनाश्हेनुंश्रापंद्धत्वचनमीविमवासुर्शिः॥ ५०॥ निद्यमर्थन् मनेगनवपः किमेषतेवध्य जनोऽनुनिष्ठत्। सबिह्मसंस्कार्मयाचगातमनः सद्रास्ख् नोविद् धेवनन्पः॥ ८५॥ समीवि बाबपुन्य भेर य नेतिकैः खमन्दिरंशिय व भृतिर्यवर्त्ततः । मनेत्रातंश्रहमृविक्षपमुद्धः न्स्यान वंज विधिर्वानग्राद One unitance has been already exhibited in a question from De 11 #

Thus did the chase, like an artful mistress, allure the king forgetful of all other business, and leaving to his ministers the burden of the state, while his passion grew by indulgence.

'The king, without his retinue, passed the night in some sequestered spot, reposing on a bed of leaves and blossoms, and enlightened by the slame of wild herbs. At dawn, being awakened by the slapping of his elephant's ears in place of the royal drums, he delighted in listening to the sweet and auspicious tones of chirping birds.

One day, pursuing an antelope, and outstripping his attendants, he arrived, with his horse foaming with fatigue, on the bank of the Tamasa a stream frequented by the devout. In its waters a deep found caused by the filling of a vase, was mistaken by the king for the grumbling of an elephant; and he directed an arrow towards the fpot whence the found proceeded. By this forbidden act,* DAS'ARAT'HA transgressed: for even the wife, when blinded by passion, deviate into the pathless waste. " Ah father!" was the piteous cry which issued: and the king, anxious, fought its cause among the reeds. He found the vase; and, near it, a hermit's fon pierced by his arrow; and he stood amazed as if internally wounded. The king of glorious lineage, who had already alighted from his horse, eagerly inquired the parentage of the youth; who, resting on the vase, with feeble accents laid " he was son of a hermit, but no priest." Instructed by him, the king conveyed the wounded youth to his blind parents: and to them as they approached their only fon, he related his miltaken deed. The unhappy pair, lamenting, conjured the king to draw the arrow from the breaft of their wounded fon. The youth was dead. The aged hermit, ratifying his curse with tears instead of water for a libation, pronounced this imprecation on the king. " In thy extreme age thou shalt reach thy fated time, with grief like mine for a beloved fon." While he spoke, as it were a ferpent affailing first and then discharging fatal venom; CAUS'ALYA's lord, conscious of the first offence, addressed him thus: " Thy curse has fallen like a boon on me, who have not feen the beauteous countenance of offspring; as fire, fed with fuel, fertilifes the foil which it burns." The king then faid " for me, who merciless deserve death at thy hands, what are thy commands?" The holy hermit asked fuel for the funeral pile; he and his wife resolving to follow their fon in death. The king, whose attendants were now arrived, promptly fulfilled his command, and remained dejected, bearing within him the hermit's curfe, a cause of his future destruction, as the ocean embraces the devouring fire. Again the king addressed him. " Wife hermit! what shall this shameless criminal, who deserves death from thee, now perform." He defired the funeral flame to be duly lighted; and the king prefented the fire for him and his wife and fon.

The chief of the race of RAGHU, attended by his army, now returned to his palace, dejected, bearing in his mind the heavy imprecation of the faint, as the ocean holds within itself the fire of destruction.' 9. 74-89.

[.] The royal and mintary tribe is prohibited from killing elephants unless in battle.

This extract exhibits, besides two stanzas of Purpitagra' * and as many of Sundari metre, † both belonging to the present head, and one, of which an example was promised in this place, ‡ several others which have been before exemplified, and two which are less common.

A SINGULAR species of variable metre is mentioned by writers on prosody, who describe it as a stanza in which the verses increase in arithmetical progression. In the instance exhibited by them the four verses of the stanza increase regularly from 8 to 20 syllables. Varieties of it are noticed in which the progression is not regular: the short verse exchanging places with the second, third, or fourth. The quantity of the syllables is in general indeterminate: but varieties are stated in which the verse consists of short syllables, either ending, or beginning with a spondee, or both ending and beginning with spondees.

A class of metre, which admits an inordinate length of the verse, is known under the general designation of Dan'daca. The verse may consist of any number of syllables from 27 to 999; and the specifick name varies accordingly. The construction of the metre requires that the six sirst syllables be short, and the remainder of the verse be composed of cretick feet; or, instead of the cretick foot, the bacchius. These two kinds of metre are distinguished by

^{. 75} and 76.

^{† 77} and 79, most properly the last.

[‡] Swa'gata' 78.

Vasanta tilaca 81-87 and Upindravajra 88. Ruchira' 89.

Manjubhashini 74 (P. T. D. 3 I.) and Mattamayura 80 (2 S+T. I. D. S.)

f For example. Arna, which comprises to feet ; Arnava 11 ; Vyala 12 ; Jimuta 13 ; &c.

different names. A verse consisting of any number of anapæsts within the limitation abovementioned, is also comprehended under this general designation; as are verses of similar length consisting exclusively of iambick or trochaick seet. They have their peculiar denominations.

EXAMPLES of these extravagantly long verses are to be found in the works of the poet V'ANA. It is unnecessary to insert any specimen of them in this place; as an example will occur in a sub-sequent quotation from BHAVABHU'T1's drama.

THAT class of metre which is termed half equal, because the alternate verses are alike, comprises various sorts, which appear to be compounded of two simple kinds with an appropriate number of syllables of a determinate quantity.

ANOTHER class, in which every verse of the stanza is different, appears more complex. But, here also, the quantity as well as the number of syllables being regulated, the stanza is in fact composed of four kinds of uniform metre.

THE most common metre of this class is that called *Udgatá*. Here the number of fyllables in each verse, as well as their quantity disfers; the first verse comprising an anapæst, iambick, tribrachys and trochee; the second a tribrachys and anapæst with two iambicks; the third, a trochee, tribrachys and two anapæsts; * and the sourth, an anapæst, iambick, and pyrrichius with three iambicks.

Or the third verse may consist of a trochee and dactyl, with two anapæsts; or of two
trochees, with two anapæsts: and the metre is denominated, in the first instance Saurabhacú;
in the second, Lalitá.

THE 12th canto of the Cirátarjuniya is in this metre; and so is the 15th canto of Ma'GHA's epick poem. It begins thus:

अवतवपाग्ड तनयेनस्ट्सितिहितंमध्दिषः। मानमस्हतनवेदिपतिःपर्बृद्धिमत्सरिमनाहिमानिना॥ १॥

But the king of the Chēdis was impatient of the honors, which the son of Pándu commanded to be shown in that assembly to the soe of Mad'bu: for the mind of the proud is envious of the prosperity of others.'

OTHER kinds of metre, in which every verse of the stanza differs in the number and quantity of the syllables, are comprehended under the general name of Gáthá; under which also some writers on prosody* include any fort of metre not described by Pingala or not distinguished by a specifick appellation. The same denomination is applicable also to stanzas consisting of any number of verses other than sour. † An instance of a stanza of six verses has been remarked in the Mahábhárata; and another example occurs at the beginning of Ma'gha's poem. ‡

दिधास्ता त्मा विम यंदिवा वरे विधूमरे विः विमयं इता श्नः । गतंतिर स्वी नमनू स्वार थेः यसिद्ध म्द्री ज्वल नं स्विभु जः । यत्तत्यधाधामविसारि स्वतः विमेतदित्य कुलमी स्विनं जनैः ॥ १॥

Dwidhá crítátmá, cim ayam divácaró?
Vid'húma róchih, cim ayam hutás'anah?
Gatan tiraschínam anúru sárat'héh.
Prasidd'ham úrddhajwalanam havirbhujah.
Patatyad'hó dháma-visári sarvatah.
Cim étad? ityáculam ícshitam janaih.

[.] Hela'yud'ha and Nara'yan'a Tara'.

[†] DIVA'CARA on the Vritta Retnúcara.

[‡] It is cited by DIVA'CARA BHAT T'A as an instance of a stanza of six. Yet the scholiasts of the poem omit the two sirst verses, and read the stanza as a tetrastich: one commentator, however, does remark, that copies of the poem exhibit the additional verses; and another commentator has joined them with two more verses in a separate stanza.

NA'REDA, descending from the heavens to visit CRISHNA, is thus described:

"Is this the fun less parted into two orbs? It is fire shining with light divested of smoke. The motion of the luminary, whose charioteer has no legs, is distinguished by its curvature. The ascent of sime is a known property of sire. Then what is this, which descends diffusing light around?" Thus was the sight contemplated with wonder by the people. Mag'ha 1. 2.

VI. Prose; and Verse mixed with Prose.

I FOLLOw the example of Sanscrit writers on profody, in proceeding to notice the different species of profe. They discriminate three and even four forts, under distinct names. 1st, Simple profe, admitting no compound terms. It is denominated Muctaca. This is little used in pohished compositions: unless in the familiar dialogue of dramas. It must undoubtedly have been the colloquial style, at the period when Sanscrit was a spoken language. 2d, Prose, in which compound terms are sparingly admitted. It is called Culaca. This and the preceding fort are by some considered as varieties of a single species named Churn'ica. It is of course a common style of composition: and, when polished, is the most elegant as it is the chastest. But it does not command the admiration of Hindu readers, 3d, Profe abounding in compound words. It bears the appellation of Utcalica praya. Examples of it exhibit compounds of the most inordinate length; and a fingle word exceeding a hundred fyllables is not unprecedented. This extravagant style of composition, being suitable to the taste of the Indian learned, is common in the most elaborate works of their savourite authors. 4th, Prose modulated so as frequently to exhibit portions of verse. It is named Vrittagand'hi. It will occur without study, and even against design, in elevated compositions; and may be expected in the works of the best writers.

Some of the most elegant and highly wrought works in prose are reckoned among poems, as already intimated, in like manner as the "Telemache" of Fenelon and "Tod Abels" of Gesner. The most celebrated are the Vásavadattá of Suband'hu, the Das'a Cumara of Dan'Dí, and the Cádambarí of Va'na.

THE first of these is a short romance of which the story is simply this. CANDARPACETU, a young and valiant prince, fon of CHINTA'-MAN'I king of Cusumapura,* faw in a dream a beautiful maiden of whom he became desperately enamoured. Impressed with the belief, that a person, such as seen by him in his dream, had a real existence, he refolves to travel in fearch of her, and departs attended only by his confidant MACARANDA. While repofing under a tree in a forest at the foot of the Vind'hya mountains, where they halted, MACARANDA overhears two birds converting, and from their discourse, he learns, that the princels VA'SAVADATTA', having rejected all the fuitors who had been affembled by the king her father for her to make choice of a husband, had feen CANDARPACE'TU in a dream, in which she had even dreamt his name. Her confidant, TAMA'LICA', fent by her in fearch of the prince, was arrived in the fame forest, and is discovered there by Ma-CARANDA. She delivers to the prince a letter from the princels, and conducts him to the king's palace. He obtains from the princess the

Same with Pat'ali pura or Pat'ali putra; the ancient Pulibothra, now Patna. As. Res. Vol. IV. p. 11.

avowal of her love; and her confidant, CALA'VATÍ, reveals to the prince the violence of her passion.

THE lovers depart together: but, passing through the forest, he loses her in the night. After long and unsuccessful search, in the course of which he reaches the shore of the sea, the prince, grown desperate through grief, resolves on death. But, at the moment when he was about to cast himself into the sea, he hears a voice from heaven which promises to him the recovery of his mistress and indicates the means. After some time, Candarpace'ru sinds a marble statue the precise resemblance of Va'savadatta'. It proves to be her; and she quits her marble form and regains animation. She recounts the circumstances under which she was transformed into stone.

HAVING thus fortunately recovered his beloved princess, the prince proceeds to his city, where they pass many years in uninterrupted happiness.

This story, told in elegant language and intermixed with many slowery descriptions in a poetical style, is the Va'savadatta' of Suband'hu. There is an allusion, however, in Bhavabhu'ti's drama, to another tale, of Va'savadatta's having been promised by her father to the king Sanjaya and giving herself in marriage to Ubayana. I am unable to reconcile this contradiction otherwise than by admitting an identity of name and difference of story. But no other trace has been yet found of the story to which Bhavabhūti has alluded.

[†] Málati múd'hava. Act. 2d.

In the work above described, as in various compositions of the same kind, the occasional introduction of a stanza, or even several, either in the presace, or in the body of the work, does not take them out of the class of prose. But other works exist, in which more frequent introduction of verse makes of these a class apart. It bears the name of Champú: and of this kind is the Nala Champú of Trivicrama before mentioned. This style of composition is not without example in European literature. The "Voyage de Bachaumont et de la Chapele," which is the most known, if not the first instance of it, in French, has found imitators in that and in other languages. The Sanscrit inventor of it has been equally fortunate: and a numerous list may be collected of works expressly entitled Champú.*

THE Indian dramas are also instances of the mixture of profe and verse; and, as already mentioned, they likewise intermingle a variety of dialects. Our own language exhibits too many instances of the first to render it necessary to cite any example in explanation of the transition from verse to prose. In regard to mixture of languages the Italian theatre presents instances quite parallel in the comedies of Angelo Beolo surnamed Ruzanti: with this difference, however, that the dramas of Ruzanti and his imitators are rustic farces; while the Indian dramatists intermingle various dialects in their serious compositions.

NOTWITHSTANDING this defect, which may indeed be easily removed by reading the Prácrit speeches in a Sanscrit version, the theatre

^{*} As the Nrisinha Champu, Gángá Champu, Vrindavana Champu, &c.

[†] WALKER's memoir on Italian tragedy.

of the Hindus is the most pleasing part of their polite literature and the best suited to the European taste. The reason probably is, that authors are restrained more within the bounds of poetic probability, when composing for exhibition before an audience, than in writing for private per-usal or even for public recital.

THE Sacuntalá by CA'LIDA'SA, which certainly is no unfavorable fpecimen of the Indian theatre, will sufficiently justify what has been here afferted. I shall conclude this essay with a short extract from Bhavabhu'ti's unrivalled drama, entitled Málati-mád'hava; presixing a concise argument of the play, the sable of which is of pure invention.

BHU'RIVASU, minister of the king of Padmavati, and DE'VARA'TA in the service of the king of Viderbha, had agreed, when their children were yet infants to cement a long subfifting friendship, by the intermarriage of Ma'LATI daughter of the first with Ma'D'HAVA fon of the latter. The king having indicated an intention to propose a match, between BHU'RIVASU'S daughter, and his own favourite NANDANA, who was both old and ugly, the minister is apprehensive of giving offence to the king by refusing the match; and the two friends concert a plan with an old priestess, who has their confidence, to throw the young people in each other's way, and to connive at a stolen marriage. In pursuance of this scheme, Ma'D'HAVA is sent to finish his studies at the city of the Padmavatí under the care of the old priestels Ca'MANDACÍ. By her contrivance, and with the aid of MA'LATI's foster fister LAVANGICA', the young people meet and become mutually enamoured. It is at this period of the story, immediately after their first interview, that the play opens. The first scene, which is between the old priestess and her female pupil Avalócita', in a very natural manner introduces an intimation of the previous events, and prepares the appearance of other
characters and particularly a former pupil of the fame priestes named
Sauda'mini, who has now arrived at supernatural power by religious
austerities; a circumstance which her successor Avalócita' has learnt
from Capa'lacun'dala' the semale pupil of a tremendous magician
Aghóraghan't'a who frequents the temple of the dreadful goddess
near the cemetery of the city.

'THE business of the play commences; and Ma'D'HAVA, his companion MACARANDA, and servant CALAHANSA appear upon the scene. MA'D'HAVA relates the circumstances of the interview with MA'LATÍ, and acknowledges himfelf deeply fmitten. His attendant produces a picture which Ma'LATÍ had drawn of Ma'D'HAVA, and which had come into his hands from one of her female attendants. In return Ma'B'HAva delineates the likeness of Ma'LATI on the same tablet and writes under it an impassioned stanza. It is restored; and being in the sequel brought back to MA'LATÍ, their mutual passion, encouraged by their respective confidants, is naturally increased. This incident furnishes matter for feveral fcenes. Mean time, the king had made the long expected demand; and the minister has returned an answer that " the king may dispose of his daughter as he pleases." The intelligence reaching the lovers throws them into despair. Another interview in a public garden takes place by the contrivance of CA'MANDACI. At this moment, a cry of terror announces that a tremendous tiger has issued from the temple of S'IVA; an instant after, NANDANA's youthful fifter MADAYANTICA' is reported to be in imminent danger. Then

MA'D'HAVA's companion, MACARANDA, is feen rushing to her rescue. He has killed the tiger. He is himfelf wounded. This passes behind the fcenes. MADAYANTICA, faved by the valour of MACARANDA, appears on the stage. The gallant youth is brought in insensible. By the care of the women he revives: and MADAYANTICA' of course falls in love with her deliverer. The preparations for Ma'LATi's wedding with NAN-DANA are announced. The women are called away. MA'D'HAVA in despair resolves to sell his living slesh for food to the ghosts and malignant spirits as his only resource to purchase the accomplishment of his wish. He accordingly goes at night to the cemetery. Previous to his appearance there, CAPA'LA CUN'D'ALA', in a short soliloquy, has hinted the magician's defign of offering a human facrifice at the shrine of the dreadful goddess, and selecting a beautiful woman for the victim. MA'D'HAVA appears as a vender of human flesh; offering, but in vain, to the ghosts and demons the slesh off his limbs as the purchase of the accomplishment of his wish. He hears a cry of distress and thinks he recognifes the voice of MA'LATÍ. The scene opens, and she is discovered dreffed as a victim, and the magician and forceress preparing for the facrifice. They proceed in their dreadful preparatives. MA'D'HAVA rushes forward to her rescue: she slies to his arms. Voices are heard as of persons in search of Ma'LATÍ. Ma'D'HAVA, placing her in safety, encounters the magician. They quit the stage fighting. The event of the combat is announced by the forceress, who vows vengeance against MA'D'HAVA for flaying the magician her preceptor.'

THE fable of the play would have been perhaps more judiciously arranged if this very theatrical situation had been introduced nearer to

the close of the drama. BHAVABHU'TI has placed it so early as the fifth act. The remaining five (for the play is in tenacts) have less interest.

' MA'LATÍ who had been stolen by the magician while asseep, being now restored to her friends, the preparations for her wedding with NANDANA are continued. By contrivance of the old priestess, who advised that she should put on her wedding dress at a particular temple. MACARANDA assumes that dress and is carried in procession, in place of MA'LATÍ, to the house of NANDANA. Disgusted with the masculine appearance of the pretended bride, and offended by the rude reception given to him, NANDANA vows to have no further communication with his bride; and configns her to his fifter's care. This of course produces an interview between the lovers, in which MACARANDA discovers himself to his mistress: and she consents to accompany him to the place of MA'-LATI's concealment. The friends accordingly affemble at the garden of the temple: but the forcerefs, CAPA'LACUNDALA', watches an opportunity, when Ma'LATI is unprotected, and carries her off in a flying car. The diffress of her lover and friends is well depicted: and, when reduced to despair, being hopeless of recovering her, they are happily relieved by the arrival of SAUDA'MINI, the former pupil of the priestels. She has rescued Ma'LATI from the hands of the sorceress, and now restores her to her despairing lover. The play concludes with a double wedding.'

FROM this sketch of the story it will be readily perceived, that the subject is not ill suited to the stage: and making allowance for the belief of the Hindus in magick and supernatural powers attainable by worship of evil beings as well as of beneficent deities, the story would not even carry the appearance of improbability to an Indian audience.

Setting aside this consideration, it is certainly conducted with art; and, notwithstanding some desects in the sable, the interest upon the whole is not ill preserved. The incidents are striking. The intrigue well managed. As to the style, it is of the highest order of Sanscrit composition: and the poetry, according to the Indian taste, is beautiful.

I SHALL now close this essay with the promised extract from the play here described. It contains an example, among other kinds of metre, of the Dan'daca or long stanza: and is selected more on this account than as a fair specimen of the drama. This disadvantage attends all the quotations of the present essay. To which another may be added: that of a prose translation, which never conveys a just notion of the original verse.

Extract from Málatí Mád'hava. Act 5.

MA'D'HAVA continues to wander in the cemetery.

"Human flesh to be sold: unwounded, real flesh from the members of a man. Take it.

' How rapidly the Pais'achas flee, quitting their terrifick forms. Alas! the weakness of these beings.'

He walks about.

The road of this cemetery is involved in darkness. Here is before me "the river that . bounds it; and tremendous is the roaring of the stream, breaking away the bank, while its waters are embarrassed among the fragments of skulls, and its shores resound horribly with the howling of shakals and the cry of owls screeching amidst the contiguous woods." t

Behind the scenes.

Ah! unpitying father, the person, whom thou wouldst make the instrument of conciliating the king's mind, now perishes.'

^{*} Anusbiubb. अश् खुवृतमव्याजंपुरु यंगोपक ल्पितं। विकीयनेमहामासंगृह्यानंगृह्यानामिदं॥ १०॥

⁺ Sardula vicridita. गुञ्जलु जुनुदीरकीशिक घटाद्यून्कार संविकानकन्द्र ग्येर व चराडास्कृतिभूनप्रामारभीमें खटै:। अनाःशीर्णकरंककर्षर पयः संरोधकूलंक घ स्नोतानिर्गम घोर घर्षर स्वापारे आधानंसरित्॥ १५॥

MA'D'H. listening with anxiety. I hear a found piercing as the eagle's cry; and penetrating my foul as a voice but too well known. My heart feels rent within me; my limbs fail; I can fearcely fland. What means this?"

That piteous found iffued from the temple of CARA'LA'. Is it not the refort of the

wicked? a place for such deeds? Be it what it may; I will look.

He walks round, washed out or guibrooss , wrong sele here : mountag

The scene opens; and discovers CAPA'LACUN'D'ALA' and AGHÓRA-GHAN'TA, engaged in worshipping the idol: and MA'LATÍ dressed as a victim.

Ma'L] Ah unpitying father! the person, whom thou wouldst make the instrument of conciliating the king's mind, now perishes. Ah fond mother! thou too art slain by the evil sport of fate. Ah venerable priestes; who lived but for Ma'Lati; whose every effort was for my prosperity; thou hast been taught by thy fondness, a lasting forrow. Ah gentle LAVANGICA'! I have been snown to thee but as in a dream.'

MA'D'H.] ' Surely it is fhe. Then I find her living.'

CAPA'LA CUN'DALA' worshipping the idol CARA'LA'.] 'I bow to thee, divine CHA'MUN'DA'.

"I revere thy sport, which delights the happy court of SIVA, while the globe of the earth, finking under the weight of thy stamping foot, depresses the shell of the tortoise and shakes one portion of the universe, whence the ocean retires within a deep abysis that rivals hell."

May thy vehement dance contribute to our success and satisfaction; amidst the praise of attendant spirits assonished by the loud laugh issuing from thy necklace of heads which are animated by the immortalizing liquid that drops from the moon in thy crest fractured by the nails of the elephant's hide round thy waist, swinging to the violence of thy gestures: while mountains are overthrown by the jerk of thy arm terrible for the stasses of empossoned stame which

[•] Mandácrántá. जार् साविद्य जनुरीक् जितस्थितार्श्यिताक्षीपरिवित्रवश्येतस्थार्भेति। अन

⁺ The Pracrit original of this passage, though profe, is too beautiful to be omitted.

^{&#}x27;Há táda niccarun'a! élő dán'i n'arenda-chittáráhóbaäran'an janó bibajjaï. Há amba finéhamaä-hïaé! tum api hadáfi débba dubbilafidéna. Há Máladímaä-jívidé, mama callán'afáhanécca-fuha-faäla-bbábáré, bhaävadi! chiraffa jánábidáfi ducc'ham finéhén'a. Há pïa fahi Lavangïé! fivina-ávafara-métta danfan'á aham dé fambuttá.'

[‡] Valtra. क्यू चायतनाव्यमुच् स्कर्णव्यतिः । विभायतेन तुस्यातमिष्टानां तद्रीदृशं ॥ १७ ॥

श्र Sårdula vicridita. साव ए मानिम् मानिर्भान निम्ह्रोत चिनिष्यी उनचं चलपेर क्रेकंपविग चहु ह्या एउ ख प्र स्थिति । पाना च प्रतिम झ ग झविवर प्रक्षित्रस्प्राणेवंबंदेनंदिननी च क परिष ख क र्खिवः की डिलं ॥ ९८॥

Birnd, and a vender of lumnan flothe."

iffue from the expanded heads of hiffing ferpents closely entwined. The regions of space mean time are contracted, as within a circle marked by a flaming brand, by the rolling of thy head terrifick for the wide flame of thy eye red as raging fire. The flars are scattered by the flag that waves at the extremity of the vaft skeleton which thou bearest: And the three-eyed god exults in the close embrace of Gauri frightened by the cries of ghosts and spirits trium-Acres to interrupt who is he that dares to interrupt us? phant." .

They both bow before the idol. " : 13vol 30 H 113 aldersnov . [. 2 42 AD

MA'D'H.] ' Ah! what negled. International faids at world a farmer at a a M "The timid maid, clad as a victim in clothes and garlands stained with a sanguine die, and exposed to the view of these wicked and accursed magicians, like a fawn before wolves, is in the jaws of death; unhappy daughter of the happy BHU'RIVASU. Alas! that fuch should be the relentless course of fate." +

CAPA'L] ' Now, pretty maid, think on him who was thy beloved. Cruel death haftens towards thee.' \$

MA'LATI.] ' Beloved MA'D'HAVA! remember me when I am gone. not dead, who is cherished in the memory of a lover.

CAPA'L.] 'Ah! enamoured of Ma'D'HAVA the will become a faithful dove. However that be, no time should be lost,"

AGHORA. lifting the sword.] "Divine CHA'MUN'DA'! accept this victim vowed in prayer and now offered to thee." an anidatenages anifortheb nwo gir he deal

MA'D'H. rushing forward raises MA'LATi in his arms.] ' Wicked magician! thou art flain. thy blood flowing from a headleft revent." 2

[.] The original stanza is in Dan'daca metre; of the species denominated Prachita and Sinhavicranta. The verse contains 18 feet (a Tr. 16 C.) or 54 syllables, and the stanza comprifes 216 fyllables.

प्रचलिन करिक्तिपर्यन्तचं च प्रख्यात भिन्नेन्द् निस्पन्द मानामृत छो। न जी बत्क पादाव सी का च रहा दू हा स च सन्भूरिभून प्रवृ त्रस्ति । श्रुस्द् स्तिभुजंगभागांगद् यत्रिनिषीड नस्तार् प्रसन्त्रणापीठनिर्विष् धव्येनिरु ज्लुक्षणोड् भर् यस्विसार् दोाख रह पर्यास्तिक्या धरं ॥ व्य व द न विषश् क्र नेवक् टाक् त्रभीमा नमांग धीमप्र स्ततावान चक किया स्त दिग्भागमुनुक् खड़ांगकोटिम्झ खजोद्भनविक्षित्रवार्गणं। प्रमुद्दिनकटपूरतेतात्तविवासरेतस्य टाक्फीसंवानवीरी पनाश्चेषद्यमा तस्य म्बनानिस् वसा खवंदे विभूयाद् भी छो चतु छो चनः ॥ १० ॥

[†] Sardula vicridita. न्य सा न क क क कामाच्य वस्तापा य रह च गृहा न था। पापारं भ व तीर्भगी व वृक्योभी र्गातामा चरं। सेयंभितवसार्वसारिवस्तामलोर्भेखेवर्तनेहाधिक समितसम्बार्धिक रामिस्

[‡] Praharshini. तंभद्रेका द विने।ऽचयस्वाभूदे धलालायनिहारुणः सना नाः।

[|] Prabarshin'i, चामुखेभगवितंत्रसाधनादावृद्धिम्पनिद्दिताभजसपूजा ॥ २१॥

CAPAL Der S Avaunt villain. Art thou not fo will do should be made and more

MA'L.] Save me; prince! She embraces MA'D'HAVA.

MA'D'H.]. Fear nothing. "Thy friend is before thee, who banishing terror in the moment of death has proved his affection by the efforts of despair. Cease thy trembling. This wicked wretch shall from feel the retribution of his grime on his own head."

AGHÓRA.] ' Ah! who is he that dares to interrupt us?'

CAPA'L.] 'Venerable Sir! He is her lover; he is Ma'D'HAVA, fon of CA'MANDACI's friend, and a vender of human flesh.'

Ma'D'H. in tears.] ' How is this? auspicious maid!'

Ma'L. sighing.] 'I know not; Prince! I was sleeping on the terrace. I awoke here, But how came you in this place?

MA'D'H. blushing.] "Urged by the eager wish that I may be blessed with thy hand, I came to this abode of death to sell myself to the ghosts. I heard thy weeping. I came hither." •

Ma'L.] Alas! for my fake wert thou wandering regardless of thyself!

MA'D'H.] ' Indeed, it is an opportune chance.

"Having happily faved my beloved from the fword of this murderer, like the moon's orbifrom the mouth of devouring Rahu, how is my mind distracted with doubt, melted with pity, agitated with wonder, inflamed with anger and bursting with joy."

AGHOR.] Ah! thou Brahmen boy! Like a ftag drawn by pity for his doe whom a tiger has seized, thou seekest thy own destruction, approaching me engaged in the worship of this place of human facrifice. Wretch! I will first gratify the great mother of beings with thy blood flowing from a headless trunk." ‡

MA'D'H.] 'Thou worst of finful wretches! "How couldst thou attempt to deprive the triple world of its rarest gem, and the universe of its greatest excellence, to bereave the

^{||} Harin'i. मर्णासमयेना क्कार्यसंप्रतापनिर्गे न प्रकटितनि जसेहः सेव्यंसखापुरतस्वते ।
सन्त्वस्त्रोतकम्पंसंप्रतास्वित्तपात्रानासन्य न्यायंपापः प्रतीपविषाकिनः ॥ २२॥

श Vasanta tilaca. लयाणिय क्रूज परिश्र हपुराक्षज नाः भूयां समित्रीमितिवेश क द र्थामानः । आन्यज्ञ मां स्वणाना वपरे त भूमावा कर्यभी क रु दितानित वा गति सि ॥ २३॥

[†] S ardula vicridita स्हा सन्द्र कलामियान न चरी देवात्समासाद्य में द्र स्वीत् स्वस्त पाणपान विषयादा हिन्द् नः प्रेयसी । आनंकाहिक लंदुनंक रूणयाविक्षा भिनंवि स्वयाको धेनञ्चलिनं मुद्दाविक सिनंचेन स्वयंवर्त्तनंता ॥ २४ ॥

[‡] Sadula vicri dita. बाध्यामानमृगीक्षपानु समृगकायेन हिंसार नेःपापपास्य पहारकेनन स्थाप्रीसिनेगी चर् । सीहंपामा वतेनभून जनकी मुधीनिखड़ा हिन्य सासा स्थापना स्थाप्त स्थाप्त स्थाप्त स्थाप्त स्थापमार निःस्य न्दिना ॥ २५॥

people of light, to drive the kindred to desperation, to humble love, to make vision vain, and render the world a miserable waste?"*

'Ah wicked wretch! "Hast thou dared to lift a weapon against that tender form, which even shrunk from the blow of light blossoms thrown in merry mood by playful damsels. This arm shall light on thy head like the sudden club of YAMA." t

AGHOR.] 'Strike, villain! Art thou not fuch?'

MA'L. to MA'D'H] 'Be pacified, dear MA'DHAVA! The cruel man is desperate. Abstain from this needless hazard.'

CAPA'L. to AGHOR. 'Venerable fir, be on your guard. Kill the wretch.'

MA'D'H. and AGHÓR. addressing the women.] "Take courage. The wretch is flain. Was it ever feen that the lion, whose sharp fangs are fitted to lacerate the front of the elephant, was foiled in fight with deer.";

A noise behind the scenes. They listen.

'Ho! ye guards who seek Ma'LATi. The venerable and unerring Ca'MANDACI encourages Bhúrivasu and instructs you to beset the temple of Cara'La'. She says this strange and horrid deed can proceed from none but Aghóraghant'a; nor can ought else, but a sacrifice to Cara'La', be conjectured.'

CAPA'L.] ' We are furrounded.'

AGHOR.] ' Now is the moment which calls for courage.'

MA'L.] ' Oh father! Oh venerable mother!'

MA'D'H.] 'Tis resolved. I will place MA'LATI in safety with her friends, and slay this wicked sorcerer.'

MA'D'H. conducts MA'LATÍ to the other side and returns towards AGHO'-RAGHANT'A.

AGHOR.] ' Ah wretch! " My fword shall even now cut thee to pieces, ringing against the

^{*} Sic'harini. असारंसंसारंपरिमुधिनरातंत्रिमुवनंतिग्लाकं ले।कंमर्णश्र्णवान्धवजनं। अन्येकन्द्रभेजननयनिर्माणमणालंजगञ्जीणार्ग्यंक धमसिविधानं यावसितः॥ २६॥

[†] A very uncommon metre named Avitat'ha or Narcut'aca. प्रणावस्वीस्वी स्परित्तास्रस्थितते र्वीस्वतिष्रियपुर्वास्त ननेर पितास्य विवत् । वपुष्विष्यायन यत्व श्रासुपश्चिपतः पनतृश्चिर स्व वा श्वयम द् रह द्वेषभुक्तः ।। २७ ॥

[‡] Vasanta tilaca धेर्येनिधेहिच् द्येहनस्वपापः विवासदाचिद् पिकेनचिद् न्यभावि । सारंगसंगर्विधाविभनुत्रभनू दनुष्टाकपाणिकु चित्रसहरेः प्रमादः ॥ २०॥

joints of thy bones, passing with instantaneous rapidity through thy tough muscles, and playing unresisted in thy flesh like most clay."*

They fight. The scene closes.

of any to make the present

SYNOPTICAL TABLES OF INDIAN PROSODY.

Feet used in Sanscrit Prosody,

TRISYLLABIC.

M. ——— Molossus. M.

T. —— O Antibacchius J. Palimbace chius v, Hyppobacchius. H.

Y. O —— Bacchius, B.

J. O — O Amphibrachys J. Scolius, Sc.

R. — O — Creticus J. Amphimacer, C. Bh. O O Dactylus,

D.

S. O O — Anapastus. A.

N. O O O Tribrachys,

Tr,

MONOSYLLABIC.

L. o Brevis, Br, G, - Longus, L

Feet used in Pracrit Prosody.

1. c. One Mátrá or Calá. Sara: BREVIS BR. Carn'a: SPONDÆUS - S. 2. c. Two Mátrás or Calás. Payod'hara: Scotius o - o Sc. Hara: Longus -L. Hasta: ANAPÆSTUS O O - A. Supriya: Pyrrhichius f. Periambus, o P. Charan a Dactylus - o D. 3. c. Three Matras or Calas. Vipra: PROCELEUSMATICUS Q Q Q PR. Tála: TROCHÆUS - 0 Indrásana: 5. c. Five Mátrás or Calás. Dwaja: IAMBUS . — I. CRETICUS C. BACCHIUS B. PEON PE. &c. Tán'dava: TRIBRACHYS O O O Sarója: 6. c. Six Mátrás or Calás. Molossus M. &c. Haya: 4. c. Four Mátrás or Calás.

Sic'harin'i कठार्खिर्यथिवानिकररणालारमुखरःखर सायुक्टे दक्षणविद्विनवेग व्यपरमः।
 निहानङ्कः पञ्चीविविपिहिनपिर्छेष्ठविका सन्निर्मानंगानंसपदि साम स्निविकर तु॥ २०॥

Metre of the Védas; regulated by the number of syllables. Seven classes subdivided into eight orders.

CLASSES.

52

A'rsha,

Daiví,

24

1. Pathyá, 8 + 8 + 19 + 8 = 36

28

Gayatri. Ushnih. Anusht'ubh. Vrihati. Pancti. Trisht'ubh. Jagati.

36

40

44

a A'suri,	15	14	13	12	11	10	9
Prájápatyá,	8	12	16	20	24	28	32
Yajush,	6	7	8	9	10	11	12
Prájápatyá, Yajush, Sáman,	12	14	16	18	20	22	24
Rich,	18	21	24	27	30	33	36
Bráhmí,	36	42	48	54	60	66	72
Distribution of the Syllables in Triplets, Tetrastichs &c. I. GA'YATRI'. 2. Nyancusáriní (Scand'hógrívá or							
I. Tripád,		. 8 x	3 = 24	Urovrihati	,) 8 + 19	2 + 8 + 8	= 36
2. Chatushpá			4 = 24	3, Uparish	tádorihati,	8 x 3 + 1	2 = 36
3. Pádanivrit, 7 × 3 = 21 4. Purastádorihatí, 12 + 8 × 3 = 36							= 36
4. Atipádanivrít, 6 + 8 + 7 = 21 4. Mahayríhatí, (Satóvríhatí,) 12 × 3 = 36							
5, Nági, 9 + 9 + 6 = 24 V. PANCTI.							
The state of the s			*X5000000		V. PA	NCTI.	reducible
6. Váráhí,			9 = 24	1. Chatushp	id, (12 x	$2 + 8 \times 2$).
7. Bardhmána	The second second		8 = 21	1. Satah-p	12 +	8 + 12 + 8	= 40
8. Pratisht'há	,8 +	7 +	6 = 21	or	8 + 12	+ 8 + 19	= 40
9. Dwipádvir	áj,	. 12 +	8 = 20	2. Astára-			
10. Tripádvirá	j,	. 11 ×	3 = 33		Control of the Contro		
10. Thipadviraj,							
1. Tripád, (12	+ 8×2)		84. 6 11			+8+8+1	
1. Cacubh,				2. 1. Acshe			7 3 3 5 H
2. Pura Ushi				The second section of the Party	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Control Description (1)	
- Company of the Comp	The second second			Comment of the Commen	and the same of th	5 × 5	
3. Paróshnih						5 × 3	
2. Chatushpád						6 + 5×3	
III.	ANUSH	T'UBH.	NATION	3. Pat'hyá,.	Alexandroi.	8 x 5	= 40
1. Chatushpá	d,	8 ×	4 = 32	4. Jagatí,		8 x (=48
2. Tripád, (8 + 12×2). viz. 12 + 8 + 12. VI. Trishtubh.							
or 12 + 12 -	+ 8. or 8 -	12 + 1	12 = 32.	1. Jyótishm		tended and A schools	4 = 43
IV	. VRIE	IATÍ.		2. Jagatí,	A TANK BUILDING MEN		
1. Chatushpá			4 = 36	THE RESERVE AND THE PARTY OF		11 (12) +	
2	NAME OF STREET		2 = 36		Charles and the control of the contr	11 (12) +	
	. 8×3 4	And the second second	= 36	1/1/1/19/9/15/1/2/16/16/16/16/16/16/16/16/16/16/16/16/16/			158 1 VC N-1
			- 50	Oparismad,	0 + 9 -	+8+8+	11(12)

Deficient and exuberant Metre.

- 1. Sancumatí, = 5 + a × 3 ex. (Gáyatrí) 5 + $6 \times 3 = 23$.
- 2. Cacudmati, = 6 + a×3
- 3. Pipílica mad'hyá, = (Tripád) = many + few + many ex. 8 + 4 + 8.
- 4. Yavamad'hyá, = (Tripád) = few + many + few ex. 8 + 10 + 8.
- 5. Nivrit, = a 1 ex. (Gáyatri) 24 1 = 23.
- 6. Bhurij, = a + 1 ex. (Gáyatrí) 24 + 1 = 25.
- 7. Viráj, = a 2 ex. (Gáyatrí) 8 + 8 + 6 = 22.
- 8. Swaráj, = a + 2 ex. (Gáyatrí,) 8 + 8 + 10 = 26.*

I. Gan'avritta of Sanscrit Prosody, and Ma'tra'vritta of Pra'crit Prosody; regulated by quantity.

A'rva' or Gát'há Pr. Gáhá. 30+27=57 c.
 Odd yerse: 30 c. = 7½ ft. (6th = Sc. or Pr).
 Even yerse: 27 c. = 7½ ft. (6th = Br).
 Each yerse ends in L.

Pause in 1st verse before 7th ft, if Pr. But if 6th ft. be Pr. then pause after 1st syllable. Pause in 2d verse before 5th ft. if Pr.

16 Species: Pat'hya': Pause after 3d ft. (3+4½=7½ ft & 12+18+12+15=57c). Vipulá: Pause placed otherwise. Hence A'divipulá, Antyavipula', and Ubhayavipula', with 1st verse, 2d, or both, irregularly divided by the pause. Chapalá 1st f. S. or A. 2d Sc. 3d S. 4th Sc. 5th S. or D. 6th Sc. or Pr. (in the short verse, Br). 7th S. D. A. or Pr. Hence Muc'hachapalá, Jag'hanya

chapalá and Mahachapalá, with 1st, 2d or both verses so constructed. Therefore Aryá +3 Chapalás × Pathyá+3 Vipulás = 16 species.

Variations: A'ryá, 1st verse 10800. 2d verse 6400. Chapalá 1st verse 32, 2d verse 16.

In Prácrit prosody, 27 species: from 27 L. +3 Br. = 30 syll. to 1 L. and 55 Br. = 56syll.

Specifick varieties. Culiná containing 1 Sc. Culat'há, 2 Sc. Vésyá, many Sc. Ran'dá, no Sc. Gurvin'í, Sc. 1st, 3d, 5th or 7th ft. But this is against rule: which excludes amphibrachys from the odd feet.

- 2. Upgíri or Vigát há Pr. Viga ha. 27 + 30=57c. viz. 12+15+12+18.
- 3. Upagírí Pr. Gahu. 27+27=54 c. viz.

^{*} If there be room to doubt whether the metre be reduced from the next above, or raifed from the next below, the first verse determines the question; for it is referred to the class to which the first verse or pada belongs. If this do not suffice, the metre is referred to that class, which is facred to the deity, to whom the prayer is addressed. Should this also be insufficient, other rules of selection have been provided. Sometimes the metre is eked out by substituting iya or uva for correspondent vowels. This in particular, appears to be practised in the Samavēda.

12+15+12+15.

- 4. Giri or Udga't'ha' Pr. Ugga'ha' 30+30=60 c. viz. 12+18+12+18.
- 5. A'RYA'SITE OF C'hand'haca Pr. Seand'hat SE+32 == 64 c.
- 8 ft. complete, (3+5, -8f) and 12+20+12+20=64 c).

Species 16 (Pat'hya' &c), variations of each verse 10800.

In Pracrit prosody, 28 species from 28 L. & 8 Br. to 1 L. and 62 Br.

- 6. Chandrica', Sangiti or Gát'hini Pr. Gáhini 30+32=62 c. viz. 12+18+12+20.
- 7. Sugiti, or Parigiti Pr. Sinhini 32+30 = 62 c. viz. 12+20+12+18.

Also 6. Sangiti, 32 + 29 = 61 c. A'ryá $(7\frac{1}{2}$ ft.) + L. in both verses.

- Sugiti, \$2 + 27 = 59 c.
 L. in first verse only.
- 8. Pragiti, 30 + 29 = 59 c.

+ L. in second verse only.

- 9. Anugiti, 27 + 32 = 59 c.

 Reverse of Sugiti.
- 10. Manjugiti, 29 + 30 = 59 c.

 Reverse of Pragiti.
- 11. Vigiti, 29 + 29 = 58 c. Upagiti + L. in both verses.
- 12. Chârugiti, 29 + 32 = 61 c. Reverse of Sangiti.
- Vallari, 32 + 30 = 62 c.
 A'ryágíti L. in last verse.
- 14. Lalitá, 30 + 32 = 62 c.

 L. in first verse.
- 15. Pramadá, 29 + 27 = 56 c.
 Upagíti + L in first verse.
- 16. Chandricá, 27 + 29 = 56 c.
 + L. in last verse.

All these kinds admit 16 species as above: viz. Pat hyá &c.

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II. Ma'tra' vritta or Ma'tra' ch'handas, of Sanscrit Prosody.

- 1. VAITA'LIVA, 56 to 68 c.
- 1. Vaitaliya, 14 + 16 + 14 + 16 = 60 c.

 End in C. + I.

 Short syllables by pairs (even verses not to begin with 2 Tr.)
 - 2. Apátálica, End in D. & S.
 - 3. Aupachhandasica, 16 + 18 + 16 + 18 = 68 c. End in C. & B.

Each kind admits 8 varieties of the short verse & 13 of the long: from 3 long syll. to 6 short beginning the one, & from 4 long syll. to 1 long & 6 short in the other.

Also the following species under each kind.

1. Dacshinantica, begin with L. Comprising 2 varieties of the odd verses.

- I. I. (or TR.); and 4 of the even verses. I. B (or P.s. 2d or 4th or 5 Br.)
- 2. Udichya vritta, odd verses begin with I.
- 3. Práchya vřitta, even verses C. or P.s. 4.
- 4. Pravrittaca, the 2 preceding combined.
- 5. Aparantică, 16 × 4 = 64 c. (Prách.)
- 6. Charuhasini, 14 × 4 = 56c. (Udich.)
- 2. Ma'tra' samaga, 16 (4 × 4) × 4 = 64 c. End S. or A. Begin S. A. D. or Pr.
 - 1. Matra samaca, 2d ft.S.A. or D. 3d ft.A.
 - 2. Vis loca, 2d Sc. or PR. 3d S. or D.
 - 3. Vánavásicá, 2d S. A. or D. 3d Sc. or PR.
 - 4. Chitra, 2d Sc. or PR. 3d A. Sc. or PR.
 - 5. Upachitra, 2d S. A. or D. 3d S. or D.
 - 6. Padaculaca, the above intermixed.

The 1st species admits 24 varieties; the 2d, 32; & the 3 next, 48 each. The variations of the last species are very numerous.

- 3. Gitya'nya' or Achalad'hriti, 16 + 4
 All short syllables.
- Dwic'han'daca; or Couplet.
 Sic'há or Chúdá, 32 Br. + 16 L.
 species: Jyótish lst verse 32 Br. 2d 16 L.
 Saumyá or Arangácrí dá 1st verse 16 L.

2d 32 Bn.

Also 1 Sic'há 30 + 32 = 62 c. 1st Verse 28 Br. + L. 2d 30 Br. L. +

2. Chanjā 32 + 30 = 62 c. 1st 30 Br. + L. 2d 28 Br. + L.

3. Chálicá er Atiruchirá 29 + 29 = 58 c. 27 Br. + L.

Also 3 Chidica 29 + 31 = 60 c. 1st Verse 27 Br. + L, 2d 29 Br. + L.

III. Mátrá vritta of Prácrit prosody continued from Table I.

Dôhá S. Dwipát'ha, 13 + 11 + 13 + 11 = 48 c.

3 ft. viz. odd verse 6+4+3. even verse 6+4+1.

23 species from 23 L + 2 Br. to 48 Br.

9. Utcach'há Pr. Uccach'há, 11 x 6=66 c.
 6 verses, 3 ft. each, 4 + 4 + 3.
 8 species from 66 Br. to 28 L + 10 Br.

10. Rólá or Lólá, 24 × 4 = 96 c.
 Pause 11 + 13. Usually end in L.
 12 species from 12 L to 24 Br.

11. Gandhá Pr. Gandhána, 17 + 18 + 17 + 18 = 70 Syll.

12. Chatushpadá or Chatushpadicá Pr. Chäupaïa Cháupáä, 30 × 4 × 4 = 480 c. 16 verses: 7½ ft. 4 × 7 + L.

13. Ghattá & Ghattánanda, $31 \times 2 = 62$ c. $10 + 8 + 13 = 4 \times 7 + 3$ Br. or $11 + 7 + 13 = 6 + 3 \times 3 + 5 + 4 + 3 + 2 + 2$ Br.

 Shat'pada or Shat' padicá Pr. Ch'happáä, 96 + 56 = 152 c.

Cávya $24 (11 + 13 = 6 + 4 \times 4 + 2 Br.)$ + 4 = 96. Ullala $28 (15 + 13) \times 2 = 56$. Varieties of the Tetrastich 45 from 96 Br. to 44 L + 8 Br. Varieties of the whole stanza 71 from 70 L + 12 Br. to 152 Br.

15. Prajjat'ica Pr. Pajjaliá, 16 × 4=64 c. 4 ft. End in Sc.

Atiliha At"hillá Pr. Atilá 16 x 4=64 c.
 No Sc. End in P.

17. Pádáculaca Pr. Culapáä, 16×4=64c. 6 + 4 × 2 + 2 L.

18. Raddå, stanza of nine = 116 c. viz. 1st = 15 c. = 4 ft. viz. 3 + 4 + 4 + 4. End in Sc. or Pr.

2d = 12 c. = 4 ft. End in Pr.

3d = 15 c. End in D.

4th = 11 c. = 3 ft. End in Tr.

5th = 15 c. End in D.

6th to 9th = Dôhá as before. 5 species.

19. Padmávatí Pr. Pauma, 32×4=128c. 8 ft. no Sc.

20. Cundalicá Pr. Cundaliá, stanza of eight = 142 c

Dóhá + Rólá or Cávya.

21. Gagan'angana, 25 x 4 = 100 c. 20 syll. viz, 5 L & 15 Br. End in I.

22. Dwipadí or Dwipada, $28 \times 2 = 56$ c. $6\frac{1}{2}$ ft. viz. 6 + 4 + 5 + L.

23. C'hanjá, 41 x 2 = 82 c.

10 ft. viz. 9 Pr. + C.

21. Sichá, 28 x 2 = 56 c.

7 ft. viz. 6 Pr. + Sc. See Sanscrit metre.

25. Málá, 45 × 2 = 90 c.

11 ft. viz. $4 \times 9 + c. + S.$

Also 25. Målå 45 + 27 = 72 c.

Ist verse, as above, 2d verse A'rya.

26. Chudicála Pr. Chulialá, 29 x 2=58 c. Half the Dóhá + 5.

27. Sauráshtra Pr. Sórati ha, 11 + 13 + 11 + 13 = 48 c.

Reverse of the Dohá.

28. Hácali, I4 × 4 = 56 c.

31 ft. viz. 4 × 3 + L. (syll. 11 or IO.) ft. D.

Pr. or A. sometimes S. Not end in P. S.

29. Mad'hubhava, 8 × 4 = 32 c.

2 ft. End in Sc.

30. Abhira, 11 × 4 = 44 c.

7 + Sc. or D. + I + Sc. or Sc. + Tr. + Sc.

31. Dan'dacala, 32 × 4 = 128 c.

4×4+6+2+8, or 10+8+14. End in L.

32. Dipaca, $10 \times 4 = 40$. c. 4 + 5 + Br. usually end in Sc.

33. Sinha valóca Pr. Sinhálüó 16×4 =

64. c.

4 ft. A. or Pr. but end in A.

34. Plavangama Pr. Parangamá, 21 × 4 = 84. c.

6 × 3 + 1. Begin with L.

35. Lila'vati, 24 or less x 4 = 96 or less.

6 ft. or less: not end in A.

36. Harigita', 28 × 4 = 112 c.

 $5+6+5\times3+$ L. Should begin with Pr. and end in S.

37. Tribhangi, 32 x 4 = 128 c.

S ft. No Sc. End in L.

SS. Durmila or Durmilica', 32 x 4=128c.

10 + 8 + 14. ft. 8.

39. Hira or Hiraca, 23 × 4 = 92. c.

4 ft. viz. $6 \times 3 + 5$. ft. 6 Br. or 1 L. with 4 Br. End in L.

40. Jalad'hara or Jalaharana', 32 × 4 = 128 c.

Pauses 10 + 8 + 6 + 8. ft. 8. Generally Pr. End in A.

41. Madanagriha or Madanahara', 40 × 4

10 + 8 + 14 + 8 = 40.

42. Maha'ra'sht'ra Pr. Marahat't'a, 29 × 4 = 116 c.

10+8+11 or 6+4×5+L.+Br.

Also the following kinds:

43. Ruchira', 30 × 4 = I20 c.

74 ft. end in L.

44. Calica', 14 × 4 = 56 c.

Pauses 8 + 6.

45. Va'san'a, $20 \times 4 = 80$ c.

4 ft. End in C. Pause before the last.

46. Chauróla, 16 + 14+16 + 14= 60 c.

ft. A. or Pr.

47. Jhallana', $37 \times 4 = 148$ c.

71 ft. 5×7+ L. Pauses 10 + 10 + 10 + 7.

48. Asha'd'ha, 12 + 7 + 12 + 7 = 38 c.

49. Ma'lavi, 16 + 12 + 16 + 12 = 56 c.

Long verse 4 ft. short verse end in L.

50. Matta', 20 × 4 = 80 c.

5 ft. no Sc.

51. Rasamala, 24 × 4 = 96 c.

6 ft.

52. Avalambaca, $13 \times 4 = 52$ c.

3ft. 4 x 2 + 5. End in L.

IV. Metre regulated by number of Syllables.

VACTRA, 8 × 4 = 32 syll.

2 ft. between 2 syll. The species vary
in the 2d ft. or 3d place.

I. Simple Vactra.

I. or Br. + M. &c. (except Tr. & A. and, in the even verse, C.) + B. + L. or Br. Therefore 1st 4th & 8th syll. either long or short. 5th short. 6th & 7th long. Either 2d or 3d long.

Variations of the 1st verse 24; of the 2d 20.

2. Pat'hyá.

Ist verse as above; 2d with Sc. for 2d ft. Hence 7th syll. short.

Viparita pat'hyá.
 The preceding transposed.

4. Chapala.

Ist verse with Tr. for 2d ft. Therefore
6th & 7th syll, short.

5. Vipulà.

2d verse (some say Ist, others all) with 7th syll. short. Therefore 2d ft. D.

Sc.H. or Tr.

5 or 7 species: Bha-vipula, Ist verse (some say either) with D. for 2d ft. Ra-vipula, with C. for 2d ft. Navipula, 2d ft. Tr. Ta-vipula, 2d ft. H. Ma-vipula, 2d ft. M. Ya-vipula, 2d ft. B. Ja-vipula, 2d ft. Sc.

No instance occurs with an anapæst for

2 A. End in Sc.

the 2d ft. or 3d place,

V. Acshara ch'handas or Varn'a vritta. Metre regulated by number and quantity.

Regular or uniform metre; the stanza being composed of equal and similar verses.

From one to five syllables in the verse, or from four to twenty in the stanza.

UCTA' OF UCT'HA. 1 × 4 = 4.
 Sri, g. = L. 2. Mahi, l. = Br.
 ATYUCTA'. 2 × 4 = 8.
 Stri, or Cáma, 2 g. = S. 2. Rati, or Mahi, l. g. = I. 3. Sáru, g. l. = T. 4.
 Madhu, Pr. Mahu, 2 l. = P.

III. MADHYA'. S × 4 = 12.

Nárí, or Táli, m. = M. 2. S'as'i, Pr. Sasí, y. = B. 3. Priyá, Pr. Piá; or Mrigi, r. = C. 4. Raman'i, or Raman'a, s. = A.
 Panchála, or Pánchála, t. = H. 6. Mrígindra, Pr. Mainda, j. = Sc. 7. Mandara, bh. = D. 8. Camali, or Camala, n. = Tr.

4V. PRATISHT'HA' 4 × 4 = 16.

1. Canyá, or Tírná, Pr. Tinná, m. g. = 2

S. 2. Ghári, or Háricá, r. l. = 2 T. 3.

Nagálicá, Lagálicá, Nagání, or Nagánicá,

Pr. Nagániá, or Nagání, j. g. = 2 1. 4.

Satí, n. g. = P. L.

V. Supratisht' Ha' 5 × 4 = 20.
 1. Paneti, Acsharapaneti, or Hansa, bh.
 2 g. = D. S. 2. Sammóhá, m. 2 g. = M.
 S. 3. Hárítabandha, or Hárí, 2 g. 4 2 g.
 or t. 2 g. = S. B. 4. Priyá, 2 l. r. = A. I.
 Yamaca, Pr. Jamaca, v. 2 l. = P. Tr.

From six to twenty-six syllables in the Verse.

GA'YATRI'. 6 × 4 = 24.

1. Tanumad'hyá, t y = 8 P S. 2. Vidyulléc'há, or Sésha, Pr. Sésâ, 2 m = 3 S. 3. Sasivadaná, or Chauránsá, n y = 2 P S. 4. Vasumatí, t s = 8 P I. 5. Vanitá, or Tilaca, Pr. Dillá, 2 s = 2 A. 6. Yódha, or Dwiyód'hí, Pr. Vijóha, 2 r = T S I. 7. Chaturansá, Pr. Chāucansá, n y = 2 P S. 8. Mant'hána, or Cámávatára, (half of the Sáranga), 2 t = 8 I T. 9. Sanc'hanárí or Sómarájí, (half of the Bhujangaprayáta), 2 y = I T S. 10. Málati, Sumálatí, Vasanta, or Cáminícánta, 2 j = I P T. 11. Damanaca, 2 n = 3 P.

II. USHNIH 7 × 4 = 28.

1. Cumáralatitá, (2+5) js g = I + Tr. S.2. Madaléc'há, m s g = SDS. 3. Hansamálá, s r g = ATS. 4. Mad'humatí, 2 n g = 2 PA. 5. Sumánicá, r g l = 2 TC. 6. Suvása, n j l = 2 PD. 7. Carahanchá, n s l = 2 PSc. 8. Sírshá, Pr. Sísá, 2 m g = 2 SM.

III. Anushtubh $8 \times 4 = 32$.

1. Chitrapadá, 2 bh. 2 g = 2 DS. 2. Vidyunmálá, Pr. Bijjúmálá, $(4 + 4 \ddagger) 2 m$ 2g = 2S + 2S. 3. Mánavaca, or Mánavacácridá, $(4 + 4 \dagger) bh$. $t \lg = TI + TI$. 4. Hansaruta, m n 2g = SDB. 5. Pramánicá, Nagaswarupiní, or Matallicá, $j r \lg = 4I$. 6. Samánicá, or Mallicá, $r \lg \lg = 4I$. 7. Vitána, j t 2g = 2ITS. 8. Tungá, g + 2g = 3PS. 9. Camala, g + 2g = 2IT. 10. Hansapadí, g + 2g = 2ITS. 11. Mátangí, g + 2g = 2ITS. 12. Rambhá, g + 2g = 2ITS. 12. Rambhá, g + 2g = 2ITS. 13. Rambhá, g + 2g = 2ITS. 14. Rambhá, g + 2g = 2ITS. 15. Rambhá, g + 2g = 2ITS.

IV. VRĬHATÍ 9 × 4 = 36.

1. Halamuc'hí, (3+6), rns = C+2 P.I. 2. Bhujagas'isus'rīta, (7+2), 2nm = 2 P.A. 4. 3. Bhadricá, rnr = 2 T.A. I. 4. Mahálacshmí, 3r = T S.B.I. 5 Sárangí, or Sa'rngí, nys = 2 P.S.A. 6. Pávitra, Pr. Páyittá, mbh.s = 2 S.P.A. 7. Camalá, 2ns = 3 P.A. 8. Bimbá, nsy = P Tr. T.S. 9. Tómara, s2j = A I.P. T. 10. Rupamálí, rm = 3 S.M. 11. Manimad'hya or Maniband'ha, bh.rs = D 2 T.I. 12. Bhujangasangatá, sjr = A 3 I.

V. PANCTI 10 × 4 = 40.

1. Sudd'haviraj, m s j g = S T 3 I. 2. Panava, (5+5), m n y g = S D + A S. or m n j g = S D + A I. 3. Mayúrasarin'i, r j r g = 4 T S. 4. Mattá, (4+6), m b h. s g = 2 S + 2 P S. 5. Upast'hita, (2+8) t 2 j g = S + 2 A I. 6. Rucmavatí or Champacamálá (5+5), b h. m s g D S + D S. 7. Manóramá, n r j g = P 4 I. 8. Sanyucta, P. Sanjuta', s 2 j g = P 2 T 2 I. 9. Sáravatí, 3 b h. g = 2 D T I. 10. Sushamá, t y b h. g = S A S A. 11. Amrītamati, or Amrītagati, n j n g = P A P A. 12. Hansi, (4+6), m b h. m g = 2 S T r. S. 13. Chárumuc'hí, n y b h. g = P A S A. 14. Chandramuc'hí, t n b h. g = S P 2 A.

VI. TRISHTUBH 11 X 4 = 44.

Indravajrá, 2 t j 2 g = S I D T S.
 Upéndravajra', j t j 2 g = 2 I D T S.
 Upajáti, or Ac'hyánací, (14 species.) The two foregoing intermixed.
 Dód'haca, Band'hu or Nílaswarúpa, 3 bh. 2 g = 3 D S.

5. Sáliní, (4 + 7 +), m 2 / 2 g = 2 S + CT S. 6. Vatórmí, (4 + 7+), m bh. t 2 g = 2S+ATS. 7. Bhramaravilasita, (4+7+), m bh. n lg = 2 S + 2 P A. 8. Rat'hôd'dhatá, rnrlg = 2 T A 2 1. 9. Swágatá, rnbh. 2g=2TAPS. 10. Vrinta or Vritt4, (4+7t), 2ns2g = 3PAS. 11. Syenicá or S'rén'icá, r j r l g = 4 T C. 12. Sumuc'hi, (5+6+), n2jlg = PA+2A. 13. Bhadricá, 2n r l g = 9 P A 2 I. 14. Maucticama'la, Sri, Anucula or Cudmaladanti, (5+6), bh. 1 n 2 g = DS + 2 PS. Upast hith, j. 122 g = ITr. STS. 16. Upachitra or Viséshica, 3slg=3AI. 17. Cupurushajanitá, 2 nr 2 g = 2PAIS. 18. Anavasitá, nybh. 2g=2PSDS. 19. Mótanaca, t 2 j t g = S 3 A. 20. Málatimálá, 3m2g=4SM. 21. Damanaca, rnlg 4 P A. 22. Madand'ha, msj2g=8 2 TS.

VII. JAGATÍ 19 X 4 = 48.

1 Vans'ast'ha or Vans'ast'havila, jtjr= 21TSI. 2. Indravans'a, 2tjr = SIT3 I. S. Upajáti, the two foregoing intermixed. 4. Tot'aca, 4 s = 4 A. 5. Drutavilambita, n 2 bh. r = P I 2 A I. 6. S'riputa or Puta, (8 + 4), 2 n m y = 3 PS + TS. 7. Jalodd'hatagati, (6+6), j s j s = IPI+1PI. S. Tata or Lalita, 2 nmr=3P 281. 9. Ousumavichitrá, (6 + 6), n y n y = 2 P S + 2 P S. 10. Chanchala cshica, Pramuditavadana, Mandácini, Gaurí or Prabhá, (7 + 5), 2n2r = 2PA + BL. 11. Bhujangaprayáta, 4 y = ITSITS. 12. Sragvin'i or Lacshmid'hara, 4 r = TSIT ST. 13. Pramitácshará, s j 2 s = A Sc. 2 A. 14. Cántótpávlá or Jaladharamálá, (4 +8), m bh. sm = 28+2P2S or bh. m s m = DSD28. 15. Vais'wadevi, (5 4 7), 2 m 2 y = M S + T S B. 16. Navamálini, (8+4), n j bh. y = 2 P 2 T + P S.17. Chandravartma, (4 + 8 1), r n bh. s = 2 T + PD A. 18. Priyambada, n bh. jr =P1P31. 19. Man'imala, (6+6), ty ty = SPS + SPS. 20. Lalitá, t bh. jr = SIP31. 21. Ujiwali, 2 n bh. r = SP T 2 I. 22. Málatí or Varatanu, (5 + 7), n Bir = PA+A2I. 23. Tamarasa or Lalitapada, n2jy=2P2DS. 24. Lalana, (5+7) bh. m 2s = DS + DT I or bh. t ns = DS + 2PA. 25. Drutapada, n bh. ny = PISPS. 26. Vidyád'hara, (4+8), 4 m = 2S + 4S. 27. Saranga, 4t = SIT SIT. 28. Maucticadáma, 4 j = IPTIP T. 29 Módaca, 4 bh. = 4 D. 50. Taralanayani, 4 n = 6 P. A TOTAL TOTAL

VIII. ATIJAGATÍ, 13 X 4 = 59. 1. Praharshini, (3+10) m n j r g = M 4 2P2TS. 2. Ruchirá, or Atiruchirá, (4+9) j bh. s j g = 21+2 PT C. 3. Mattaraayūra, or Maya, (4 + 9) mt ysg = 2S+TIDS. 4. Gauri, 2n2rg= 3PTSB. 5. Manjubháshin'i, Prabód'hit's, Sunandiní, or Canacaprabhá, s j s j g = A I+P31. 6. Chandrica, Cshama, Utpalini, or Cut'ilagati, (7+6) 2 n 2 t g = PA + T SI. 7. Calabansa, Chitravatí, or Sinhanáda, sj2sg = P2TPDS. 8. Chancharicávali, y m 2 r g = 128 C T S. 9. Chandraléc'ha, (6+7) n s r y g = 2 P I + 2 T M. 10. Vidyut, (6 + 7) ns2tg = 2PI + SIC. 11. Mrigéndramuc'ha, n 2 jr g = PAP2TS. 12. Táraca, 4 s g = 3 A PS. 13. Calácanda, or Canda, 4 y l = BITSIT. 14. Pancajávali, or Pancávali, bh. n2jl = D2P2D. 15. Chan'di, 2n2sg

= 4 P D S. 16. Prabhávati, (4 + 9) t bh. sjg = SI + 2 P T C.

IX. SACCARÍ, 14 X 4 = 56.

1. Asambad'ha, (5 + 9) m t n s 2 g = M S + 2 P A S. 2. Aparájitá, (7 + 7) 2 nrs lg = 2PA + IA lors ars lg = PTA 1 A 1. 3. Praharapácalitá, or Calicá, (7 + 7) 2 n bh. n l g = 2 P A + 2 P A. 4. Vasantatilaca, Sinhonnatá, Udd'harshin'i, Mad'humád'havi, or Sóbhávatí, t bh. 2 j 2 g = SIPIPTS. 5. Lola, or Alola, (7+7) m s m bh. 2 g = S D S + S D S. 6. Induvadaná, or Varasundari, bh. jsn2 g = TPT PTPS. 7. Nadí, (7 + 7) 2ntj2g=2 PA+DTS. S. Lacshmi, mstbh. 2g= 5 D S T D S. 9. Supavitra, (8+6) 4n2g = 4 P+2 PS. 10. Madhyacshama, (4 + 10) or Cutila, (4+6+4) m bh. n y 2g= 25+3P+28. 11. Pramadá, nj bh. j lg = 2 P 2 T P T I. 12. Manjart, (5 + 9) : jsylg = P2TPTSI. 13. Cumiri, (8 +6) njbh. J2g=2P2TPTS. 14. Sucesara, nrnrlg = P21P31. 15. Vasanti, mtnm2g=28DA28. 16. Nándímic'hi, (7+7) 2n2t2g=3PS1TS. 17. Chacra, or Chacrapata, bh. 3 n l g = T5 PI. 18. Lilopavati, (4 + 10) 4 m 2 g = 2 S + 5 S. 19. Natagati, 4 n 2 g = 6 P + 8. 20. Cópavati, bh. m st lg = DSDST1.

X. ATISACCARÍ, 15 X 4 = 60.

1. Chandrávartá, $(7+8\ddagger)4ns=2PTr$.

+ PTr. A. 2. Málá, or Sraj, (6+9)4n= 2Tr. + 2Tr. A. 3. Manigun'anicara, (8+7)4ns=4P+2PA. 4. Máliní, or
Nan'dímuc'hí, (8+7)2nm2y=3PS+ CTS. 5. Chandraléc'há, (7+8)mr m2y=23B+31TS. 6. Cámacrí'dá,

Lilac'héla, or Sárangicá and Sarangaca, 5 m = 6 S M. 7. Prabhadraca, or Subhadraca and Sucésara, (7+8) n j bh. jr = 2 P C + P 3 L. 8. Elá, (5+10) s j 2 n y = A I + 4 I T. 9. Upamáliní, (8+7) 2 n t bh. r = 3 P T + S A I. 10. Vipinatilaca, n s n 2 r = 2 P I Tr. TS I. 11. Chitrá, 3 m 2 y = 3 S M I T S. 12. Tun'aca, or Chámara, (8 L 7 Br. = 23 c.) = 6 T C. 13. Bhramarávalí, 5 s = 5 A. 14. Manahansa, s 2 j bh. r = A I P 2 T 2 I. 15. Sárabha, or Sás'icalá, 4 n + s = 6 P A. 16. Nisipála, bh. j s n r = D I P I P 2 I. 17. Utsara, r n 2 bh. r = 2 T 3 A I. 18. Hansa, (8+7) n 2 j r y = 2 P D 3 T S.

XI. ASHTI, 16 × 4 = 64.

1. Rishabhagujavilasita, or Gajaturangavilasita, (7 + 9) bh. r 3 ng = D 2 T + 3 PA. 2. Ván'iní, njbh.jrg=2P2TP 2 TS. 3. Chitra, Chitrasanga, Atisundara or Chanchalá, (double Samanica) r jer jel = 8 T. 4. Panchachámara, Nárácha or Narácha, (double Pramánica), jrjrjg = ST. 5. Dhiralalita, bh. rnrng D2T P2TA. 6. C'hagati, Nfla, Lila or Aswagati, 5 bh. g = 4 DTI. 7. Chacita, (8 + 8) bh smtng DAS+SDA. 8. Madannlalita, (4 + 6 + 6) m bh. n m n g = 2 S+2PI+SPI. 9. Pravarelalita, m n sir g = 1282 PITS. 10. Gamdarute, n jbh. jtg = 2P2TPTSI. 11, Sailasic hay (16 or 5 + 6 + 5) bh. n. 12 bh. g = D 2 T 3 A or D T + T F T + I A. 12. Varayuvali, bh. r y 2 ng = D 2 TS 2 P A. 13. Brahmerupaca, (double Vidyunmala,) 5 mg =88. 14. Achaladhrita, ar Gllyarya, 5 n l = 8 P. 15. Pinanilamba, (4+5+ 7) m t y m s g = 2S + DS + SDS. 16. Yauvanamattá, (5 + 11) bh. 3 m s g = DS + 3SDS.

XII. ATYASHTI, $17 \times 4 = 68$.

1. Sic'harin'i, (6 + 11) y m n s bh. 1 g = I2S + 2 PIDI. 2. Prit'hwi, (8 + 9) jsjsylg=IP2I+Tr. TSI. 3. Vans'apatrapatita, or Vansapatra, (10 + 7) bh. rnbh. nlg = D2TA+2PA. 4. Harin'i, (6+4+7 or 4+6+7) n s m r s l g=2PI+2S+IAI. 5. Mandácrántá, (4+6+7) m bh. n2t2g = 2S + 2PI+ CTS. 6. Narcut'aca, or Nardat'aca (7 + 10), or Avitat'ha (17 +), n j bh. 2 j lg= Tr. 21 + Tr. TIA. 7. Cócilaca, (7 + 6 + 4 t or 8 + 5 + 4 t) = Tr. 2I + PIP+ TI. 8. Hari, (6 + 4 + 7) 2nmrslg= SP + 2S + IAI. 9. Cántá, or Crántá, (4+6+7) y bh. nrslg = IS+2PI+I A I. 10. Chitraléc'há, or Atis'ayani, (10 + 7) 2sjbh.j2g = 2A2I + Tr. TS. 11. Málád'hara, or Vanamálád'hara, n s j s y l g = 2 P 2 I Tr. T S I. 12. Háriní, (4 + 6 +7) mbh. nmylg = 2S + 2PI + SBI. XIII. DHRĬTI, 18 × 4 = 72.

1. Cusumitalatá véllitá, (5+6+7) m t n3y = MS + 2PI + GTS. 2. Mahámálicá, Nárácha, Latá, Vanamálá, (10+8+)2n4r = 3PTS + ITSI. 3. Sud'há, (6+6+6) y m n s t s = I2S + 2PI + SPI. 4. Harin'apluta, (8+5+5) m s 2 j bh. r = ST2I + AI + AI. 5. Aswagati, 5 bh. s = 5DA. 6. Chitraléc'há, (4+7+7) m 2 n 2 t m = ST+PTr. S+ITM. 7. Bhramarapada, bh. r3nm = D 2 T3PAS. 8. Sárdúlalalita, (12+6) m s j s t s = SD2TA+SPI. 9. Sárdúla,

(12+6) $m \le j \le r m = SD_2 TA + T_2 \le 10$. Césara, (4+7+7)mbh. ny 2r = 2S+2PA+SIC. 11 Nandana, (11+7)njbh. j2r = 2PTDI+2IC. 12. Chitrasálá, Chitraléc'há, (4+7+7)mbh. n3y = 2S+2PA+CTS. 13. Chala, (4+7+7)mbh. njbh. r = 2S+2PA+IAI. 14. Vivud'hapriya, $(8+10+1)r \le 2jbh. r = 2T2I+P2T2I.$ 15. Manjíra, $2mbh. msm = 3SDSD 2 \le 16$. Críd'achandra, 6y = ITPITPITP. 17. Charcharí, rs2jbh. r = TDID2T 2I.

ATIDHRĬTI, $19 \times 4 = 76$. XIV. I. S'árdulavicrídita, or S'árdúla, (12+7) msjs2tg=SD2TA+SIC. 2. Még'. havisp'hurjitá, or Vismitra, (6 + 6 + 7.) y mns2rg=I2S+2PI+CTS. 3. Panchachámara, 2n +alternate g l = Tr. P7 I. 4. Pushpadáma, (5+7+7) m t n s 2 r g = MS+2PA+CTS. 5. Bimbá, (5+7+7) mtns2tg=MS+2PA + HSI. 6. Ch'háyá, (6 + 6 + 7 or 12 +7) y m n s bh. t g = 12S + 2PI + DSI. 7. Macarandica, (6+6+7)ymns2 jg = 128+2PI+IAI. 8. Samudratatá, (8+4+7) j sj s t bh. g = IP 2I + PI + SIA. 9. Surasá, (7 + 7 + 5)mrbh. nyng = MTS + 2PA + DI.10. Manimanjari, y bh. n y 2 j g = IS 2 P A 2 T 2 I. 11. Chandramálá, or Chandra, (10+9) 3n j 2n l = 5 P + D 3 P. 12. Dhavalanca, or Dhavala, 6 ng = 8 PA. 13. Sambhu, (7+6+6) sty bh. 2 mg = AS ASA3S.

XV. CRĬTI, $20 \times 4 = 80$. 1. Suvadaná, (7+7+6) m r bh. n y bh. lg = 2SB + 2PA + SPI, 2. Vritta, or Gandaca, rjrjrjgl = 10 T. 3. Sobha, (6+7+7) jm2n2t2g = 12S + 2P A + TSB. 4. Giticá, or Gita, s2jbhlr slg = AIP2T2IAI.

XVI. PRACRITI, 21 × 4 = 84.

1. Sragdhará, (7+7+7) m r bh. n 3 y = 2 S B + 2 P A + T S B. 2. Salilanid'hi, Sarasi, Sidd'haca, S'as'ivadana or Dhritas'rí, n j bh. 3 j r = 2 P T D I + 2 A 2 I. 3. Naréndra, bh. n 2 n 2 j y = D 2 T 3 P 2 D S.

XVII. A'CRITI, 22 × 4 = 88.

I. Bhadraca, (10 + 12) bh. rnrnrng = D 2 T A + I Tr. 2 T A. 2. Madirá, or Lalitá, 7 bh. g = 6 D T I. 3. Hansi, (8 + 14) 2 m 2 g 4 n 2 g = 4 8 + 6 P S. XVIII. VICRITI, 23 × 4 = 92.

1. As'walalita, or Adritanaya, (11 + 12)

n j bh. j bh. j bh. l g = 2 P T D I + 1 Tr. T

D I. 2. Mattácrid'a, or Va'jiváhana, (8 +

15) 2 m t A n l g = 4 S + 6 P A · 3. Sunda
ri, (7 + 6 + 10) 2 s bh. s t 2 j = A. P S + 2

PS + 2 D. 4. Ma'latí, or Madamatta', 7 bh. 2 g = 7 D S. 5. Chitrapada, 7 bh. 1 g = 7 D I. 6. Mallicá, 7 j l g = I P T I P T I P T I P T I A.

XIX. SANCRITI, 24 × 4 = 96.

1. Tanwi, (5 + 7 + 12 or 12 + 12) bh, t $n \cdot s \cdot 2bh$, $n \cdot y = D \cdot S + 2PA + 2D \cdot 2PS$.

2. Durmilá, 8s = 8A.

3. Cirita, 8bh.

8 D. 4. Janací, $8r = T \cdot S \cdot I \cdot T \cdot S \cdot I$

XX. ATICRITI, 25 \times 4 = 100. 1. Craunchpadá, (5+5+8+7) bh. m s bh. 4 n g = D S + D S + AP + 2 P A. 2. S'ambhu, 8 m g = 11 S M.

XXI. UTCRITI, 26 × 4 = 104.

1. Bhujangavijrimbhita, (8+11+7) 2 m t 3 n r s l g = 4 S + 4 P A + I A I. 2. Apaváha, (9+6+6+5) m 6 n s 2 g = S D 2 P + 3 P + 3 P + A S. 3. Gauri, 8 m 2 g = 13 S.

From 27 to 999 syllables in the verse.

DAN'DACA, 27 x 4=108 to 999 x 4= 9996.

PADAGHATHERED IA, INCRESSIES IN

1. Chan'davrishtiprayata, 2 n 7 r = 2 Tr.

2. Prachita, 2 n 8 &c. r.

S25 species from 9 to 333 feet viz. 2d Arns,
2 n 8 r. 3d Arnava, 2 n 9 r. 4th Vyala,
2 n 10 r. 5th Jimuta, 2 n 11 r &c.

Or 3. Prachita, 2n7 &c. y=2Tr. 7 &c. B.

4. Mattamátangalilácara, 9&c.r=9&c.C.

5. Sinhavicránta, 2 n 10 &c. r.

6. Cusumastavaca, 9 &c. s = 9 &c. A.

7. Anangas éc'hara, /g /g &c. = 15 &c. L.

8. As 6 camanjari, rj &c. = 15 &c. T. Also Sa'Lu'ra, 2g &n s = S &12 P A.

VI. Half equal Metre; the stanza being composed of equal and similar couplets; but the couplets, of dissimilar verses.

Upachitra, (Upajáti + Támarasa).
 Ist verse 3 s l g = 3 A I. 2d 3 bh. 2 g = 3 D S.

2. Drutamad'hyá, (Dód'haca + Támarasa). Ist 36h. 2g=3DS. 2dn 2jy= 2P2DS.

- 3. Végavatí, (Upachitra penult Br. in 1st verse). 1st 3 s g = 2 A P S. 2d 3 bh. 2g = 3DS.
- 4. Bhadraviráj (species of Aupach'handasica). 1st t j rg = SP2TS. 2d ms j2g = SD2TS.
- 5. Cétumatí. 1st s j s g = A I Tr. S. 2d bh. r n 2 g = T. 2 I Tr. S.
- 6. Ac'hyanaci (Upajati viz. alternate Indravajra and Upéndravajra; some say, one verse Indravajra three Upéndravajra). 1st (and 3d) 2t j 2g = SIDTS. 2d (and 4th some say 3d) jtj2g=2IDT S.
- 7. Viparitác'hyánací (the converse of the preceding). Ist j t j 2g = 2 I D T S. 2d2tj2g = SIDTS.
- 8. Harin'aplutá (Drutavilambita one syllable) 1st 3slg = 3AI. 2d n2bh. r =PIZAI.

- 9. Aparavactra (species of Vaitáliya: or Bhadrica + Malati). 1st 2 nr lg = 2P A21. 2dn2 jr=P2A21.
- 10. Pushpitágrá (species of Aupach'handasica). Ist 2 nry = 3 P 2 T S. 2d n 2 irg = 2PD2TS.
- 11. Yavamati. 1strjrj=6 T. 2djr jrg = 5 IB.
- 12. S'ic'há. 1st 28 l g = 7 Tr. I. 2d 30 lg=7 Tr. PI.
- 13. Chanjá. lst 30 l g = 7 Tr. P. 2d 28 1 g = 7 Tr. I.
- 14. Lalitá. 1st r s l g = 2 T 2 I. 2d snjg = A Tr. 2 I.
- 15. Caumudí (Bhadricá + Chanchalácshicá). 1st 2 nr lg=Tr. P 3 L.2d 2n2r=3P TS L.
- 16. Manjusaurabha (Malati + Manjubháshiní). 1st n 2 j r = 2 P T 3 I. 2d s j s jg = AIP3I.

VII. Unequal Metre; the stanza being composed of dissimilar verses.

- 1. Udgatá, 1st verse s j s l = A I Tr. T. 2d n s j g = Tr. A 2 I. 3d bh. n j l g = TTr. 2 A. 4th sjsjg = AIP3I. 2 varieties: viz. Saurabhaca, 3d verse r n bh. g = T D 2 A. Lalita, 3d verse 2n2s = 2Tr. 2 A.
- 2. Upast'hitaprachupita, 1st verse m s j bh. 2g = SD2TDS.2dsnjrg = A2P2TS. $3d\ 2ns = 3PA.$ 4th 3njy = 5PDS.2 varieties: viz. Bard'hma'n'a, 3d verse 2 n s 2 n s = 3 P A 3 P A Sudd'havira'lrishabha,
- 3d verse t j r = SA2I.
- 3. PADACHATURURD'HA, increasing in arithmetical progression from 8 to 20 syll. viz. 1st verse 8, 2d 12, 3d 16, 4th 20. 6 species: viz. Apida, End in S Rest Br. Pratyápí'da, Begin with S or begin and end with S. Manjari or Calica, 1st and 2d verses transposed 12 + 8 + 16 + 20. Lavali, 1st and 3d transposed 16 + 12 + 8 + 20. Amritad'hárá, 1st and 4th transposed 20 + 12 + 16 + 8.

Supplement, under the denomination of GAT'HA'.

- 1. Stanzas comprising four unequal verses, constituting a metre not described by writers on prosody.
 - 2. Stanzas comprising more or fewer verses
- than four; viz. three, five, six &c.
 - 3. Any metre not specified by PINGALA.
- 4. Metre not specified by any writer on prosody.

VII.

ROUT SECULEDA

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REMARKS upon the Authorities of Mosulman Law.

By J. H. HARINGTON, Esq.

THE basis of Mohummudan law, religious, civil, and criminal, is the Korán; believed to be of divine origin, and to have been revealed by an angel to Mohummud; who caused it to be written and published, from time to time, as occasion required, for the resutation of his opponents, or the instruction and guidance of his followers: though the hundred and sourteen Söwur, or chapters, which compose the Korán, were not digested, in their present form, until after the death of Mohummud; when they were collected by his immediate successor Aboo Bukr; and were asterwards, in the 30th year of the Hijrah, transcribed, collated, and promulgated, by order of the Khulcesah Othmain.

THE Korán being thus considered the written word of God, its texts, when clear and applicable, and not abrogated by other texts of subsequent revelation, are unquestionable and decisive. But, (as remarked by an eminent historian,‡) "In all religions the life of the founder supplies the silence of written revelation: the sayings of Ma-

These remarks are intended to form part of an Analysis of the Laws and Regulations, for the Civil Government of the British territories, under the Presidency of Bengal. This work is designed for the use of the students in the College of Fort William; and the second part, which relates to Criminal Justice, is introduced by a summary of the Mohummudan law of crimes and punishments, for the purpose of rendering more intelligible the amendments of it enacted by the Regulations of the Governor General in Council.

⁺ V. SALE'S Preliminary Discourse, Section III.

In Chap. L. of the Decline and fall of the Roman Empire, relative to Arabia.

HOMET were fo many leffons of truth; his actions fo many examples of virtue; and the public and private memorials were preserved by his wives and companions." In fact, the ordinances of the Korán, in civil affairs, are few and imperfect; and must have proved altogether inadequate to provide for the various objects of legislation, in a large and civilized community, without the aid of the Sonnut, or rule of conduct, deduced from the oral precepts, actions, and decisions, of the prophet. These were not committed to writing by MOHUMMUD; but were collected after his death, by tradition, from his companions, (the Sahabah;) their contemporaries, (Tabileen, literally, followers;) and fuccessors (Tuba-i-tabi-ieen;) and the authentic traditions, which have been preserved in numerous compilations of Ahadees, (dicta, factaque; precepts and transactions;) Sonun, (instituta vita, exempla; rules of practice and examples;) or Riwayat, (relationes, reports;) constitute a second authority of Mosulman law; conclusive (if the authenticity and application of the traditions be admitted) in all cases not expressly determined by the words of the Koran.*

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The collections of traditions held in the most general estimation, as genuine and authoritative, by the Shanees, or orthodox traditionists, are the following; denominated Sibah-i-sittah; or the six authentics.

^{1.} Subeeb-i-Bekharee. Compiled by ABOO ABDÖÖLLAH, MOHUMMUD, of Bokhara. He was born A. H. 194; and died in the year 256; in the fuburbs of Sumurkund. His compilation is faid to contain above feven thousand traditions; selected from 300,000.

^{2.} Sabeeh-i-Mössim. By Aboo'L Hose'n, Mooslim, of Nyshapoor. He died A. H. 261; and is also said to have compiled his work from 300,000 traditions. This and the preceding collection, when cited together, are called Sabeeby'n, or the two authentics.

^{3.} Söönun-i-Ibn-i Majab. By Mohummud-Bin-I Yuzeed, Bin-i Ma'jah; of Kuzveen. (Erroneously named Ben Mohummud, in D'Herbelot. Title Sonan Ebn Magiah.) He died at Kuzveen, in Irak, A. H. 273.

^{4.} Sconun-i Aboo Dagood. By Aboo Dagood, Soly'Ma'n, of Sijistan. He was born A. H. 202; and died at Busrah, in the year 275. His work is stated to consist of 4,800 traditions, selected from 500,000.

The schisms and dissentions, however, which took place among the Mohummudans, after the demise of their legislator and sounder, especially the contest for the succession to the Khiláfut, or pontificate, which gave rise to the Shiya, or sectaries of Alee, have occasioned various differences and disagreements, both in reading and interpreting the word of the Korán, and in admitting or rejecting the traditions, which compose the oral law. There appears to be an error, or verbal inaccuracy, in the observation of the learned, and in general accurate, translator of the Korán, that

^{5.} Jama-i Tirmizee. By Aboo IEESA', MOHUMMUD, of Tirmiz, in Töörkistan. He is also surnamed Zureer or Dhureer, from his blindness. His birth was A. H 209; and his death in 279. His compilation is noticed by D'Herbelot, under the title of Giame al Kebir; and is erroneously cited (apparently from D'Herbelot,) in Hamilton's Preliminary Discourse, page 36, as quoted in the Hidayah; instead of the Jama-i-Kubeer, on fik-h, or juris-prudence, by IMA'M MOHUMMUD.

^{6.} Jámā-i Nisā, ee; called also Söönun-i Nisā, ee. By Aboo-t Abd-öö Rahma'n Ahmud, of Nisā, a city of Kiberāsān. He was born A. H. 215; and died in the year 303. This collection is selected from a former compilation, by the same author, called the Söönun-i-kööbrā.; and mentioned by D'Herbelot, under the title of Sonan Al Kebir.

The four works last mentioned, when cited collectively, have the defignation of Sconun-iurba, or the four collects of traditions. The short notices, which have been given, of their compilers, and of the authors of the Saheeby'n, are taken chiefly from the Mirat-ool-aalum, an esteemed general history composed by BUKHT-YA'R KHA'N, in the reign of AURUNZE'S. They are confirmed, with many other particulars, in the Mishkat, a work of authority on the traditions admitted by the Soonees; and used, as a class book, in Mosulman Colleges, with the Sabeeh-i Bokharee, and Sabeeh-i Mosslim. The author, SHYKH WA'LEBOO'DEEN, ABOO ABDOOLLAH, MAHMOOD, who finished his undertaking (to verify and illustrate the traditions contained in a former compilation, called the Musabechoo's bonnut, by Hose'n BIN-I Musoo,-OOD, FURA'EE) A. H. 737, Rates that the Mowutta of MA'LIK BIN ANS, (the founder of the fecond orthodox feet, who died A. H. 179) is, by fome reckoned one of the fix authentic collections, instead of the Soonun-i Ibn-i Majah. He adds that others are of opinion, the Darumee, compiled by ABOO MOHUMMUD ABDOOLLAH of Sumurkund, furnamed DA'RUMEE, who was born A. H. 481, and died in 255, should be classed as the fixth authentic. But he has himself given this place to the compilation of MOHUMMUD, the grandson of MA'JAH; and it is commonly placed third in the feries, with reference to the supposed order of publication.

"the Sonnites receive the Sonna, or book of traditions of their prophet, as of canonical authority; whereas the Shiites reject it as apocryphal, and unworthy of credit." From this remark it might be inferred, that the Shiya reject the traditions altogether; whereas they admit many which are not deemed authentic, and are consequently rejected, by the Shonees. They have also their collections of Ahadees, and Shonun, which they deem genuine and authoritative. The difference between them, and the Ahl-i-Shonnut, or orthodox traditionists, who, as remarked by Mr. Hamilton, appear to have assumed this title of distinction, "in opposition to the innovations of the sectaries," Ities, as far as respects the traditions, in the different authorities, which are admitted by the two sects for the Ahadees, received by

The third of these collections, which quotes the compiler of the two first, is said to have been presented to IMA'M MANDEE, who was born A. H. 255. The author of the fourth compilation is stated in the Mujalis ool-Momuneen, to have been contemporary with, and protected by, the Persian King ROKN-00 DOU'LAH, who died, A. H. 366.

^{*} SALE'S Preliminary Discourse, Section VIII.

[†] Mou Lavee Sira's oo'deen Alee (one of the law officers of the courts of Sudr Deevicence and Nizamut Adalut, as well as of the Supreme Court, and employed by the late Sir W. Jones, to compile the Sheeah part of a Digest of Mosulman Law, upon contracts and inheritance) states the Köötöb-i urba, or four books of traditions, held authentic by the Shiya, to be the following:

^{1.} Tahzeeb. 2. Istibsar. Both compiled by ABOO JAFUR MOHUMMUD, of Toosin Khorasan.

^{3.} Jama-i Kafee. By Mohummud BIN-I YAKOOB. Of Ry' in Persian Irak.

^{4.} Mun la Yahzöörh ööl-fukech. By Mohummud Bin Alex, of Komm, alfo in Irak-i

[‡] Preliminary Discourse to his translation of the Hidayah, page 22. His observation, at length, is "the Mussulmans, who assume to themselves the distinction of orthodox, are such as maintain the most obvious interpretation of the Koran, and the obligatory force of the traditions, in opposition to the innovations of the sectaries; whence they are termed Soanis, or traditionists." This, however, is partly open to the same objection, as has been stated to the remark of Mr. SALE.

them respectively. The Sooness allow traditionary credit to the Sahábah, or companions of their Prophet; especially to the most eminent amongst them, or those who had the longest and most familiar intercourse with Mohummun; and to the Khoolfáir náshideen, or the sour Khuleefahs, who were the immediate successors of the Prophet; and instructed by him in the principles, and tenets of his religion. Also to several intelligent and learned men, who were contemporary with the companions and sirst Khuleefahs, and who are included in the general description of Tápiseen already mentioned; as well as to others, who succeeded these; (the Tábá-i-tábi-icen;) and have verified their reports of traditions, by citing the names of the persons, through whom they were successively traced to their genuine source, the inspired Apostle of God.*

THE Shiya, on the contrary, give no authority, or credit, to the three first Khuleefahs, Aroo Bukr, Omur and Othman; nor to any other companions of Mohummur, excepting such as were partisans of Alee. They extend their faith and obedience, however, to the admifsion of all traditions of their Prophet's sayings and actions, which they

The nature of this treatife does not admit of a fuller account of the Sognet traditions; which are distinguished by some authors as Saheeh (authenticated;) Husun (approved;) Zaieef-ō-ghureeh (weak and poor;) Moonkur-ō-mouzooa (denied and imposed;) by others, as
Moosnud (vouched or certified;) and Moorsul, or Moonkuta (detached or divided.) The
Moosnud are also subdivided as Murfooa (ascending to the Prophet;) Moukoof (resting with
the Sahabah;) and Muktooa (severed or cut short among the Tabisteen;) or by another clafsification as Mootawatur (repeated, successive;) Mush, hoor (public, notorious;) and Wahid
(single, particular.) The Mishkat, referred to in a former note, has however been translated
by an officer of the Bengal establishment, and if it receive sufficient encouragement to repay
the heavy expence of printing in India, it will be speedily published.

believe to have been verified by any one of the twelve Imams; from whom they take their denomination of Imameeyah; as well as to the precepts and examples of those Imams themselves; the whole of whom they venerate, as being the lineal descendants (through FA'TIMAH), and according to their tenets, the rightful successors, of Mohummun; and the last of whom they believe to be still living, though invisible; it having been predicted of him, that he will return to judge and rule the world; to punish sinners, and those who have departed from the true faith; and to restore and consist the genuine truths of religion, with piety, justice, and every other virtue.*

WHEN neither the written nor oral law prescribes a rule of decision, the concurrence of the companions of Мониммир (Ijmáā i Sahábah) is received by the Soonees, as a third source of legal authority: and if

norts of trainions by citing the names of the perions, through whom

The names of the twelve Imams are given by D'HERBELOT, under the head of Imam. He has also given a brief statement of the tenets of the Shiya, under the titles of Schiah, Ali, and other titles of his valuable, though (as might be expected in fo voluminous and mifcellaneous a work) sometimes erroneous and often imperfect compilation. A fuller account of the doctrines and practife of the Shiya is contained in the 3d vol. of CHARDIN. (Description de la Religion des Persans, in the Amsterdam Edition of his Voyages en Perse published in M.DCC.XI.) But the most authentic information upon the jurisprudence of the Imameeyab feet, (which, not having been established, for the administration of justice, in any part of the Company's territories, needs not to be further noticed in this tract,) will be furshifted by the completion of a work, the first volume of which is already printed, and entitled A Digest of Mohummudan Law, according to the tenets of the Twelve Imams; compi-14 led under the superintendence of the late Sir WILLIAM JONES: extended, so as to comprise the whole of the Imaineea code of jurispradence, in temporal matters; and tran-1 st flated, from the original Arabic, by order of the Supreme Government of Bengal; with Notes, illustrative of the decisions of other fects of Mohummudan lawyers, on many lead-" ing and important questions. By Captain JOHN BAILLIE, Professor of the Arabic and " Persian Languages, and of Mohummudan Law, in the College of Fort William."

this also fail, they allow the validity of reason, restricted by analogy, (Kivás) in applying, by inference, the general principles of law and justice, to the various transactions and circumstances of the changeful scene of human life; which, as they could not be all foreseen, it was impossible they should be completely and expressly provided for. This is so clearly stated, with the origin of the principal Soonee sects, who agree in matters of faith, (akaced,) but differ on points of practical jurisprudence, (fik h,) in a section of the Mokhtusur oo dowul (compendium of dynasties) of GRECORIUS ABOO'L FURUJ, translated (into-Latin) by Pocock, in his Specimen Historia Arabum; that the following English version, will not, it is prefumed, be unacceptable; especially as both the Arabic original and Latin translation, are little known in India.*

" Or the fects (Muzáhib) which differ upon the branches, or derivative parts of the law, concerning rules of jurisprudence, and cases of disquilition, four are the most celebrated: viz. those of M'ALIK BIN-I ANS; med to it, that be of Mohummud Bin-i Idrees, oc' Sh'Afilee; of Ahmud Bin-i Hun-BUL; and of ABOO HUNEEFAH NAÔMA'N BIN-1 THA'BIT. The fundamental grounds of disquisition (Ijihad) are also four; the scripture or recondite, when they could

^{*} ABOO'L FURUI was a Christian, born at Malathia in Aladulia, or Armenia miner, A. C. 1226. But he wrote in Arabic, and appears to have been well verfed in the religion and law, as well as in the history, of Arabia. V. Pocock's specimen historia Arabum, comprising an extract from the dynasties of ABOO'L FURUJ; which, GIBBON observes, " form a classic and original work on the Arabian antiquities." Published at Oxford, in 1650. Also the complete Latin version of the original work, by Pocock, published in 1663. GIBRON has added, upon this, however, that "it is more useful for the literary than the civil history of the East." Cap. B. 6

(Kitab;) the traditionary law (Soonnut;) the concurrence of the prophet's companions (limá á;) and analogy, or analogical reasoning (Kiyás). For, when any legal question arose, respecting what was lawful or unlawful, a regular investigation took place, in the following manner. First, they fearched the book of Almighty God (the Koran;) and if any clear text were found in it, fuch was adhered to. But, if not, they fought for a precept, or example, of the Prophet; and abided by it, if applicable, as decifive. If none fuch were discovered, they inquired for a concurrent opinion of the Sahábah; who, being directed in the right way, are not open to suspicion of misleading; and therefore, if their fentiments could be afcertained, on the point in question, they were deemed conclusive. If not, an ultimate refort was had to analogy and reason; the variety of contingent events being infinite; whereas the texts of the law are finite. It thus appears certain that the exercise of reason may be proper and necessary in legal disquisition. IMA'M DA'OOD of Isfahan, however, entirely rejected the exercise of reason; whilst, on the contrary, ABOO HUNEEFAH was so much inclined to it, that he frequently preferred it, in manifest cases, to traditions of fingle authority. But Ma'LIK, SHAFIJEE, and IBN-1 HUNBUL, had feldom recourse to analogical argument, whether manifest or recondite, when they could apply either a positive rule, or a tradition. This gave rise to their different opinions and judgment; which are recorded in books that treat of their disputations; yet neither infidelity, or error, is to be charged against them on this account."

THE four principal jurists, and founders of sects, among the Sconees, who are noticed by ABOO'L FURUJ, have been particularly mentioned

theque of D'HERBELOT; and in the preliminary discourses of Sale and Hamilton.* The dostrines of Ma'lik, and Ibn-1 Hunbul, are not known to prevail in any part of India. Those of Sha'rifee have a limited prevalence on the sea coast of the peninsula; and are understood to obtain among the Malays, and other Mosulman inhabitants of the Eastern Islands. But the authority of Aboo Huneefah, and his two disciples, Aboo Yoosuf and Im'am Mohummud, is paramount, and exclusively governs judicial decisions, in Bengal and Hindoostan, as well as at Constantinople, and other seats of Mohummudan dominion in Turkey

^{*} Their names, at length, are-I. ABOO HUNEEVAH NAOMA'N BIN-I THA'BIT; or, as pronounced in India, Sa'BIT. 2 ABOO ABDOOLLAH MA'LIK BIN-I-ANS, or as otherwise read, ANUS. 3. ABOO ABDOOLLAH MOHUMMUD IBN-I-IDREES OO'SHA'FI, TEE, or a defcendant from Sha Fi,1. 4. ABOO ABDOOLLAH AHMUD IBN-T HUNBUL. The first is commonly called ABOO HUNEEFAH, meaning the father of HUNEEFAH, and therefore is improperly cited, in the translation of the Hidayah, by the name of HUNEEFAH only; which, moreover is a feminine appellation, and was the name of the fecond wife of ALEE. (Vide Tit. HANIFAH, in the Bib. of D'HERBELOT.) He was born at Koofab, about A. H. 80; (some fay ten, and others twenty-one, years earlier;) was instructed in the traditions, by IMA'M JA-FUR-1 SA'DIK, the fixth Imam; who, as an authority for the precepts and actions of MOHUM-MUD, is esteemed by the Soonees, as well as by the Shiya; (not the Sheeah Doctor, ABOO JA-FUR, mentioned in a former note; as erroneously stated in HAMILTON'S Preliminary Discourse, p. xxiii. Vid. Tit. Giafar in the Bib. Or.) and died in prison, at Bughdad, in the Khilafut of MUNSOOR, A. H. 150. The founder of the fecond feet is known by his proper name MA'LIK. He was born at Mudeenah, between the years go and 95 of the Hijrah; and died, at the same place, in a state of religious retirement, during the reign of HA'ROON oo'Rusheed, A. H. 179. The patronymic, Shafitee, usually distinguishes the third leader; who was born at Gaza or Ascalon, in Palestine; in the hundred and fiftieth year of the Hijrah; and died at Cairo, (where the famous SALAH 00 DEEN, some centuries afterwards, founded a College, in honour of his memory and doctrines,) A. H. 204. The last chief, AHMUD, is more generally called, from his father, IBN-1 HUNBUL. He was born at Bughdad, or according to some at Murv, or Muros, in Khorásán, A. H. 164, and died at Bughdad, where he attended the lecture of SHA'FI, IEE, A. H. 241.

and Tartary. It will therefore be fufficient to state the fystem of Aboo Huneefah, with the illustrations, and amendments, of Aboo Yoosur and Im'am Mohummun*; noticing, after the manner of the Hidáyah, any particular opinions of the other orthodox sects, upon points of importance, which may appear to require it.

It has been remarked by Sir W. Jones, in his preface to the Sirájeeyah,† "that although Aboo Huneefah be the acknowledged head

^{*} ABOO YOOSUF YA'KOOB BIN-1 IBRA HEEM OOL KOOFEE, was born at Koofab, A. H. 113; and after finishing his studies under ABOO HUNEEFAH, was appointed Kazee of Bughdad by the Khaleefah, HA'DEE. He was afterwards, in the reign of HA'ROON oo' RUSHEED, made Kázee ool Koozát, or chief judge; and retained that high station, (which isfaid to have been first instituted for him) until his death A. H. 182-ABOO ABDOOLLAH Mo. HUMMUD BIN-I HUSUN oo' SHY BA'NEE (of the tribe of Shyban) who is usually called? IMA'M MOHUMMUD, was born at Wasit, in Arabian Irak, A. H. 132. He was a fellowpupil with ABOO YOOSUF, under ABOO HUNEEFAH, and on the death of the latter, continued his studies under the former. He is also said to have received instruction from Malik. He was appointed by HA'ROON oo' RUSHEED to administer justice in Prak-i ajum or Persian-Prák, and died at Ry, the former capital of that province, A. H. 170; or, according to the Rouzul co'rivaheen, an esteemed history from the commencement to the 759th year of the Hijrah, by YAFI, IEE, A. H. 189. (See further particulars respecting ABOO YOOSUF and IMA'M MOHUMMUD, in HAMILTON'S Preliminary Discourse.) Zoofur BIN-1 Hooze'L, and Husun BIN-1 ZIYA'D, (the former of whom held the appointment of chief magistrate at Busrab, where he died A. H. 158) were also two distinguished contemporaries, and scholars, of ABOO HUNEEFAH; and are sometimes quoted as authorities for his doctrines; especially when the two principal disciples are filent.

A work of authority upon the Mohummudan law of inheritance, translated and published, with a commentary, by Sir W. Jones, in the year 1792. This is the only part of the Mofulman Digest, undertaken by the venerable judge in 1788, which his various avocations and studies allowed him to complete. He deemed it worthy of being exhibited entire, as containing the "Institutes of Arabian law on the important title mentioned by the British legislature (in the Statute 21. George III. Chapter LXX) of inheritance and succession to lands, rents, and goods." And it is of particular value to the jurisprudence of British India, as the Hiddyah, translated by Mr. Hamilton, does not include the law of inheritance. It has

of the prevailing sect, and has given his name to it, yet so great veneration is shown to Aboo Yoosuf, and the lawyer Mohummud, that, when they both diffent from their master, the Moosulman judge is at liberty to adopt either of the two decisions, which may seem to him the more consonant to reason and founded on the better authority." This remark corresponds with the received opinion of present lawyers; and is sanctioned, for the most part, by a passage to the sollowing effect in the Hummadeeyab. "Futwas (law decisions, or opinions) are given primarily, according to the doctrine of Aboo Huneefah; next according to Aboo Yoosuf; next according to Imam Mohummud; next according to Zoofur; and then according to Husun bin-i Ziyad.

not been ascertained when the author of the original treatise lived. But the Kushs of Zunson, (or dhunosn, as pronounced in Arabia) the bibliographical work of Ha'jee Khulfah, which surnished materials for a considerable part of the Bibliotheque Orientale, (Vid. Galand's presace, p. xiv. Ed. M DCC LXXVI) mentions it, under the title of Furáyid of Sujáwundee in the following terms; together with the date of the commentary of Sy'yud Shureef; the substance of which is given by Sir W. Jones, with that of a recent Persian comment, by Mou'lavee Mohummud Ka'sim, who was employed by Mr. Hastings to translate, from the Arabic into Persian, both the Sirájee yah and the Shuree seeyah. "The Furáyid-oo' Sujáwundee, composed by Ima'm Sira's oo'deen, Mahmood bin-i Abdoo' Rusheed, of Sujáwund, is commonly called the Furá,eez-i Sirajeeyah. It is held in high estimation and in general use. Many of the learned have written commentaries upon it, to the number of forty; the best of which is the comment of Sy'yud oo' Shureef Alee bin-t Mohummud, of Jorján; sinished, at Sumurkund, in the year (of the Hijrah) 804. This commentary is of the first authority, and universally received. Several Scholiasts, of erudition, have given annotations upon it.

* A collection of legal expositions, by Aboo'l futtha, Rokn of Deen ibn-1 Hosa'm, Mossive of Nagor, in the Dukthun; and dedicated to his teacher, Humad of Deen, Ahmud, chief Kazee, of Nuhr walah. The time when this work was compiled is not exactly known; but, though of modern date, it is held in considerable estimation. The court of Nizamut Adalut possess a complete copy, obtained for them, with some other law books, by Lord Teignmouth, from the Nuwab Vizeer, in the year 1797.

It is faid, that if Aboo Huneefah be of one opinion, and his two disciples of another, the Moostee is at liberty to chuse either; but the preceding rule must be observed, when the Moostee is not a scientistic jurist; (and therefore not competent to judge of the opposite opinions.) This is copied from the Koonyah. * In judicial decrees however a preference is given to the doctrine of Aboo Yoosuf (who was an eminent judge); for Ima'm Surukhsee, has declared it safe to rely upon Aboo Yoosuf in judicial matters; and that the learned have followed him in such cases; though if there be a difference between the two disciples, whichever agrees with Aboo Huneefah must be preferred. The joint opinion of the disciples may also be adopted, though different from that of Aboo Huneefah, if the difference appear to proceed from a change of human affairs; (lit. a change of men, and alteration of times;) and modern lawyers are agreed, that the doctrine of the two disciples may be taken for adjudication in all matters of civil justice."

IT appears, however, that the ancient jurists held the authority of ABOO HUNEEFAH to be absolute, although both his disciples might differ from him. This is stated, without reservation, in a chapter, " on the order of authorities to be observed in practice," forming part of the

^{*} A law tract often quoted in the Futawa-i Aalumgeeree, not known to be at present extant; and by whom composed, has not been ascertained.

[†] Shums ool Aimmah, Aboo Bukr Mohummud, native of Surukhs, in Khorásán. The Moheet composed by him will be mentioned in a subsequent note. He also wrote a commentary on the Jámã-i Sugheer of Ima'm Mohummud; and a comment upon the Kasee vil Hākim, (stated in the Kushf-oo'-zunoon to have been composed by Ha'kim-i Shaheed, Mohummud; but no longer extant,) which is called Mubsoót-i Sarukhsee, and often quoted in the Hidáyab. He died, at the place of his nativity, A. H. 483.

book entitled Adáb ool Kázee, or duties of the Kázee, in the Futáwá-i Aálumgeeree, or collection of law cases, compiled by order of the Emperor Âa'Lumgeere. The same chapter contains other useful information upon the rules and discretion, under which the Mosulman magistrate is empowered to administer justice; and as it is not long, a literal translation of it is here introduced; omitting only a quotation from the Mubsoot, which being nearly a repetition of that given from the Buday-iá, the insertion of both appeared superstuous.

"IT is incumbent upon a Kázee (or judge) to give judgment according to the book of God; to know what parts of the divine book are in force, and what have been abrogated; to be able to distinguish between the texts which are clear and positive; and such as are of doubtful meaning, having obtained a different interpretation from the learned. If no rule be found in the book of God, the Kazee is to decide according to the traditions from the Prophet. He must therefore be competent to discriminate those in force from such as have been superseded; and the spurious and invalid, from such as are genuine and authoritative. He must be acquainted with those which have obtained succesfive, notorious, or fingle, verification; and with the character and credit of the reporters of them. Because some are celebrated for their knowledge of jurisprudence (fik-h o adalut;) as the four first Khuleefahs, and the three ABDOOLLAHS, (viz. ABDOOLLAH IBN-1 OMUR, AB-DLOOLAH IBN-I ABBA's, and ABDOOLLAH IBN-I Muso, ood, three of the most learned of the companions;) whilst others are esteemed on account of their long and familiar intercourse with the Prophet, and their perfect recollection of the traditions; and they are preferred according-

ly; the former as the best authorities on the general principles of legal science; the latter for the authenticity of particular traditions. If a case arise to which none of the traditions, derived from the Prophet, may be applicable, let the Kazee determine it according to the concurrent opinion of the Sahábah (companions), for their concurrence affords a just and obligatory rule of conduct. If there be a difference of opinion among the companions, let the Kazee compare their respective arguments, and follow those which, on investigation, may appear to him preferable; supposing him qualified to enter into such a disquisition. He is not authorized to reject the whole of these opinions, and adopt a judgment of his own, altogether novel. For the companions have agreed upon this point, that although they may differ from each other, it is not lawful to institute new doctrines, at variance with the whole of them. KHUSA'F* holds the contrary opinion, that when the companions differ, the Kazee may adopt a judgment altogether distinct, as their dissention affords ground for disquisition; but what is above stated has the best foundation. When the companions have agreed upon a point, in which one of their followers (tabileen) has differted from them; if the diffenter was not their contemporary, his opposition has no weight; and a judgment given conformably thereto, against the concurrent opinion of the companions, would be invalid: but if he were contempo-

^{*} IMA'M ABOO BUKR, AHMUD BIN-1 OMUR, furnamed KHUSA'F, or the farrier. He composed the most celebrated of the works known under the title of Adáb col Kázec, or duties of the Kázec; and is stated, in the Kushf oo Zunoon, to have died A. H. 261. A high encomium is added upon his composition; which is said to consist of 120 Chapters, replete with useful information. Several learned men have written commentaries upon it, of which the most esteemed is that of IMA'M OMUR BIN-1-ABD-OOL-AZEEZ, commonly called HOOSAM, the martyr, killed A. H. 536.

rary with them, and then expounded the law in opposition to their opinions, and they gave fanction to his disquisitions, as in the instances of Shorv'h and Share,* the concurrence of the companions does not bar the opposite exposition, so admitted. With respect, however, to expositions which have no other authority than part of the Tabiscen, there are two reports of the sentiments of Aboo Huneefah. One, that he did not consider such to be authoritative; and this appears to be the true doctrine. The other, contained in the Nuwadir, † states, that if some of the sollowers of the companions have given Futwas in their time, and have received from the latter a fanction to their disquisitions; as Shory'h, Husun, and Musrook bin-1 Ajda, their decisions should be observed. It is thus written in the Moheet.

The first was Kazee, the second Mooftee, of Koofah, in the first century of the Hijrah;; and they were esteemed two of the most learned men of their age. The former, whose name at length, is Aboo Omy yah Shory's bin ool Hira's ool Kindee, held the station of Kazee, at Koofah, for seventy sive years, and died A. H. 78 or 80; after resigning his office the year before his death. The entire name of the latter is Aboo Omur Aa'mir bin-1 Shura's Heel oo Shaber, deriving his surname from the town of Shab, in Arabia. He died A. H. 104.

[†] Ten different works of this name, (meaning, literally, rare, scarce) are specified in the Kushf so Zunson; of which one was composed by IMA'M MOHUMMUD, the disciple of Aboo HUNEEFAH; and is probably that here referred to. It is considered to be of less authority than his five other works, the Jama-i sugheer, Jama-i kubeer, Mubsoot, Zeeadat, and Siyur, which are well known, and frequently quoted, under the general designation of Zahir so Ruwa-yat, the conspicuous reports.

Vid. Bib Or. Tit. Hassan al Basri.

A learned native of Humadan, who became a convert to Isla'm, during the life of Mohummud; and died at Koofah, A. H. 62.

[§] There are three works of this title; all of which are quoted in the Futávul-i Aálumgeeree; but the two others are distinguished by the addition of Surukshee or Boorbanee. The two latter will be mentioned in a subsequent note. The Mobeet, here referred to, is supposed to have

" Ir the concurrent opinion of the companions be not found in any case, which their followers may have agreed upon, the Kazee must be guided by the latter. Should there be a difference in opinion between the followers, let the Kazee compare their arguments and adopt the judgment he deems preferable. If, however, none of the authorities referred to be forthcoming, and the Kazee be a qualified jurist; (Ahil dollitihad, literally, a person capable of disquisition;) he may consider in his own mind what is confonant to the principles of right and justice; and applying the refult, with a pure intention, to the facts and circumstances of the case, let him pass judgment accordingly. But if he be not a qualified person, let him take a legal opinion from others who are versed in the law, and decide in conformity thereto. He should, in no case, give judgment without knowledge of the law; and should never be ashamed to ask questions for information and advice. It is further requifite that the Kazee attend to two rules: first, that when the three Imáms (Aboo Huneefah, Aboo Yoosuf, and Ima'm Mohummud) all agree, he is not at liberty to deviate from their joint opinion, upon his own judgment. Secondly, when the Imams differ, ABDOOLLAH-IBN-I MOBA'RUK * fays, the Kázee's fentence is to be given according to the

been written by Mou'la'na' Ruzee oo' deen of Ny'shapoor, who, in the notes prefixed by Sy'yud Ahmud-1 Humavee to an old copy of the Hidayah, purchased at Mukkah, is said to have compiled the opinions of the followers of Aboo Huneefah, in a regular series; whereas other compilers had blended them. This Moheet, however, is not extant in India, and is only known by quotations from it.

^{*} One of the pupils of ABOO HUNEEFAH, surnamed MUROOZEE from Murco, the place of his nativity. He was held in high veneration for his piety, and his tomb is said to be visited, at Hit, in Arabian Prak. (Vid. Bib. Or. Tit. Abdalla). He died at the age of 63, A. H. 181, (Mirat ool-âálum).

opinion of Aboo Huneefah, because he was one of the immediate followers, and contemporaries, of the companions, and opposed them in his futwas. So it is in the Moheet of Surukusee.*

"If no precedent be found from Aboo Huneefah and his disciples, and the case have been determined by subsequent lawyers, the Kázee is to abide by the judgment of the latter; unless there be a difference in their decisions, in which event the preference is lest to his discretion. If not even a modern precedent be forthcoming, the Kázee may exercise his own reason and judgment; provided he be conversant with jurisprudence, and have consulted with sages of the law. In the commentary of Taha'vee, † it is stated, that if the Kázee pass sentence on his own judgment, in opposition to the manifest letter of the law (Nuss), such sentence is not valid. But if the sentence be not contrary to the clear letter of the law, and the Kázee, after passing it, should change his opinion, his former judgment is, nevertheless, valid: though

^{*} The author of this work, which is extant, and held in-high estimation, is stated, in the Kushf of Zuncon, to be Shums ool Asmmah, Abob Buke Mohummud, of Surukhi, mentioned in a former note. The Moheet-i Boorhanee, composed by Boorha'n oo' deen, Mahmood bin-i Ahmud, is also noticed in the Kushf of Zuncon; but without any particulars of the author. He is mentioned by D'Herbelot, under the title of Sarakhsi, as having been born at Surukhs; and having gone from thence into Syria, where he superintended a College at Aleppo; and died at Damascus, A. H. 571. His Moheet is known in India; and an incomplete copy is possessed by the court of Nizamut Adalut; but it is less esteemed than that of Shums ool Asmmah.

[†] IMA'M ABOO JAFUR AHMUD BIN-1 MOHUMMUD, of Taha (a town in upper Egypt) is one among the numerous commentators of the Jama-i Sugheer of IMA'M MOHUMMUD. He also wrote an abridgement of the doctrines of Aboo Huneefah, and his two disciples, intitled Mokhtusur-i Tahavee. Both works are often quoted, as authorities; but are not known to be now extant. He is stated in the Kushf oo Zunoon, to have died A. H. 371.

his future adjudications must be regulated by his recent opinion. This is the doctrine of the two elders (SHY'KHY'N, viz. ABOO HUNEEFAH and ABOO YOOSUF,) and IMA'M MOHUMMUD agrees with them, provided the fecond opinion of the Kazee, in fuch cases, be deemed by others preferable to the first. It is further flated (by TAHA'VEE), that if the ancient jurifts have formed different opinions upon any point, and their fuccessors have agreed upon the opinion to be preferred; according to the two elders, this agreement does not remove the effect of the former difference; but IMAM MOHUMMUD thinks it is removed thereby. SHY'KH ool Isla'm Shums ool aimman Surukhsee, reports, however, that all the disciples of ABOO HUNEEFAH agree in opinion upon this point, and that a few of the learned only hold the continuance of the original diffent, notwithstanding the subsequent agreement. If the lawyers of one age concur in any particular doctrine, and a Kázee, in after times, differing in opinion from them, with an upright intention, pass an opposite judgment; some hold his so doing to be legal, provided there were an original difference among the learned upon the doctrine in question; whilst others deem it illegal, notwithstanding such original difference; but all agree upon the illegality of the opposite judgment, supposing no difference of opinion to have been at any time entertained upon the fubject. In the Futawa i Itabiyah: * it is stated, that if a Kazee take an exposition of the law from a Mooftee, and differ in opinion from the latter, he is to pass sentence in the case according to his own judgment; provided he be a person of understanding and knowledge; and that if

The author of this work, Aroo Nusr Ahmud Bin-1-Mohummud ool Itaber, of Bokhara, is mentioned in the Kushf on Zunson as having also written a commentary on the Jama-i Sugheer of IMAM MOHUMMUD. He died A. H. 586.

the sentence be passed against his own opinion, in deserence to that of the Mössee, it is according to the two disciples (Sa'hiby'n, viz. Aboo Yoosuf and Ima'm Mohummud) invalid: in like manner as in matters of religious preserence on presumption it is forbidden to act upon the judgment of others: but Aboo Huneffah holds the sentence to be valid in such cases, as it is the result of legal disquisition. Supposing the Kázee not to have exercised his own reason on the case, at the time of his giving judgment according to the opinion of the Mössee; and that he subsequently forms an opinion, at variance with that of the Mössee; Ima'm Mohummud says, his sentence is liable to abrogation; but Aboo Yoosuf affirms, it is not affected thereby; in the same manner as it would not be affected if the Kázee had passed sentence on his own opinion, and had afterwards changed that opinion. The foregoing is copied from the Tátárkháneeyak."*

"When there is neither written law, or concurrence of opinions, for the guidance of the Kázee, if he be capable of legal disquisition, and have formed a decisive judgment on the case, he should carry such judgment into effect by his sentence, although other scientistic lawyers may differ in opinion from him; and should not be governed by their sentiments, in opposition to his own: for that which, upon deliberate investigation, appears to be right and just, is accepted as such in the sight of God. If however the persons, who declare an opinion different from that of the Kázee, be superior to him in science, and he consequently adopt their judgment, without questioning the grounds of it, from research

^{*} Vid Bib. Or. Tatarkhân. An imperfect copy of the work referred to, entitled Futawai Tatarkhaneeyah, is in the possession of the court of Nizamut Adalut.

pect to their fuperior knowledge, ABOO HUNEEFAH admits the legality of his proceeding. ABOO YOOSUF and IMA'M MONUMMUD, on the contrary, do not allow it to be legal, unless he ultimately adopt their opinion as the refult of his own judgment. This, at leaft, is one report: but another fays, that the mafter and his two disciples held, respectively, the reverse of what has been mentioned. If, in any case, the Kazee be perplexed by opposite proofs, let him reflect upon the case, and determine as he shall judge right: or, for the greater certainty, let him consult other able lawyers; and if they differ, after weighing their arguments, let him decide, as appears just. Should they agree with each other, but differ from his own opinion on the cafe, he is to adhere to the latter until he be convinced it is ill founded, and may give judgment accordingly; but not precipitately, or until he has duly weighed and examined the whole of the circumstances and evidence. Let him not fear or hesitate to act upon the refult of his own judgment, after a full and deliberate examination: but let him beware of a doubtful and conjectural decision, without complete investigation, as such will not be approved in the account of his actions to God; though, from want of certain information to the contrary, it may pass as a valid sentence among men. What has been here said supposes the Kazee to be a Moojtahid, or scientific jurist, competent, from his talents and learning, to undertake legal disquisition. If he be not a person so qualified, but possesses a knowledge and full recollection of the points and cases determined by the eminent lawyers of his perfuafion, let him give judgment according to the tenets of those in whom he confides; and whom he believes it right to follow. Should he not have a perfect recollection of decided law-points, let him act upon expositions of the law, by Montees of the orthodox doctrine; or if there be only one fuch Montee on the spot, his single exposition may be acted upon, without sear of imputed desiciency. It is thus written in the Budáyi à."*

"The legal meaning of Ijtihad is the diligent exercise of the mental faculties in search of the thing desired; and the requisite qualification of a Möjtahid is a discriminative knowledge of what is contained in the book of God, and in the traditions from the Prophet, relative to legal rules and ordinances (ahkam.) It is not effential that he should also know the moral precepts and admonitions included therein. It has been likewise declared that a person, whose general restitude exceeds his deviations from right, may lawfully practise Ijtihad, or disquisition. But the definition above given is accurate: as stated in the Fosool öol Imadecyah.† The most correct account given of a Möjtahid is, that he have a comprehensive knowledge of the divine book, with the different interpretations thereof; a full acquaintance with the traditions, their gradations, texts, and comments; a right understanding, or power of just rea-

A commentary on the Tobful vil Fokahá, of Shy'kh ôla oo'deen Mohummud, of Sumurkund, by his pupil, Aboo Bukk, Bin-i Musô, ood, of Káshán, in Persian I'rák. The author of the Kushf oo' Zunson states the death of the latter to have been A. H. 587; and adds, the master was so well pleased with the comment of his scholar, that he gave in marriage to the latter his daughter Fa'timah, who was also learned in the science of jutisprudence. The entire name of the commentary is Budayisa. Sanayisa fee turteeb so Shuráyisa. Both the text and comment are quoted as authorities; but neither is known to be now extant in India.

[†] By Abool fut, H. Mohummud ein-i Aboo Bukk, of Murgheenán. He is stated, in the Kushf oo' Zunoon, to have composed the work quoted, A. H. 65t, at the College sounded by IMAD ool-Moolk, in the suburbs of Sumurkund. It contains forty sections, on civil transactions (Moâmulât) only; and being lest incomplete at his death, was finished by his son, Juma'l oo' deen. A copy is among the books of the Nizamut Adalut, and it is considered a work of authority.

foning; and experience in human affairs and usages. This is quoted from the Kafee."*

HAVING thus stated the authorities for the Mohummudan law, and the preference to be observed, or discretion allowed, when they differ; it may be proper to add a short notice of the books of jurisprudence which are esteemed by the Huneefeeyah sect of Soonee lawyers, for practical exposition of the temporal law; especially such as are extant and govern judicial decisions in India.

ABOO HUNEEFAH himself does not appear to have left any work upon jurisprudence.† His legal doctrines were recorded and illustrated by his disciples; particularly by IMAM MOHUMMUD; whose most celebrated law-tracts, entitled the Jama-i-sugheer, Jama-i-kubeer, Mubsoot, Zeeádát, and Siyur, have been already noticed, as collectively quoted by the title of Záhir ŏŏ ruwáyát.‡ These works are described in the Kushf oð

^{*} A commentary on the Wase, and written by the same author IM'AM ABOO'L BURKA'T, ABDÖÖLLA BIN-I AHMUD, commonly called HAFIZ ÕO' DEEN, of Nusuf, who died A. H. 710. He also wrote the Kunz & Dukayik, a work of high authority, and extant in India; but eclipsed by its comment the Buhr-i-Rayik, composed in the tenth century of the Hijrah by Zyn ÕOL AA'BIDEEN IBN-I NUISEM, of Egypt. Vid. Tit. Nagim of D'HERBELOT, who appears however to have stated the year of his death A. H. 670, instead of 970; which is mentioned more than once in the Kushf oo' Zuncon.

[†] Mr. Hamilton mentions three treatiles, on theological subjects, as written by Aboo Huneefah: viz. the Māsnad, Filk-al-ēlm, and Moallim. Of these the Mössnud is described in the Kushs oo' Zunoon, as a book of traditions. The work apparently intended as the second, but misnamed Filk-al-ēlm, instead of Fil kulam (on theology,) is well known in India, by the name of Fikh-i-Akbur. The third is unknown. D'Herbelot, who seems to have been Mr. Hamilton's principal authority, mentions the three works, under the title of Abou-Hanisah.

[†] Mr. Hamilton (in his Preliminary Discourse, p. 36,) has inadvertently stated the Jama-i-kubeer to be a collection of traditions, called also the Jama-i-sabeeh, by Yeesoo Mo-

Zunoon as being of the first authority for the opinions of ABOO HUNEE-FAH and ABOO YOOSUF,* as well as of IMA'M MOHUMMUD. Various commentaries are also stated to have been written upon them during the early ages of the Mohummudan era; and several are quoted in the Futawa-i-Aalumgeeree, compiled in the reign of Au'Rungze's.† But nei-

HUMMUD BIN YESOO AL TERMAZI. The apparent origin of this mistake has been pointed out in a former note. He further remarks that the author of the Jamâ-i-sugheer is uncertain. But independently of numerous other authorities, Ima'm Mohummud is expressly cited in the Hidáyah as the author of both works, and of the Mubsoot. (See Vol. I. of the translation, p. 153.) Mr. Hamilton has been led into another error, by supposing the Mubsoot, quoted in the Hidáyah, to have been written by Fukr-ööl Isla'm Buzduvee; whereas, of the two Mubsoot cited by the author of the Hidáyah, one is the composition of Ima'm Mohummud, above noticed; and the other was composed by Shums ööl Aimmah Surukhsee, as observed in a preceding note.

* The only work known to have been composed by Aboo Yoosur is an Adub tol Kazee; and the reputation of this has been superseded by the celebrity of Khusar's tract of the same title, already mentioned. He is said, however, to have surnished his pupil, IMA'M MOHUM-MUD, with notes (amales) for a considerable part of his compositions; particularly for the Jama-i-sugheer.

+ The principal commentators of the Jama-i-sugheer are SHUMS GOL AFMMAH SURUKH-SEE; ABOO BUKR AHMUD RAZEE, commonly called Jussa's. (the plasterer;) ABOO JA-FUR AHMUD TAHA'VEE; FURR OOL ISLA'M ÂLEE BUZDUVEE; ABOO NUSUR AHMUD ool Ita'bee of Bokhara; Aboo'l Ly's Nusur, of Sumurkund; Aboo Nusur Ahmed, ISBEEJA'BEE; HUSUN BIN-I-MUNSOOR, of Ouzjund, better known by the appellation of KAZEE KHAN; TAJ-ÖÖ' DEEN ABD ÖÖL GHUFUR KURDUREE; ZUHEER ÖÖ DEEN AH-MUD TUMURTA'SHEE; and KA'ZEE MUSA'OOD, of Yuzd; and ABOO SAEED MOOTU-HUR, of the fame city; whose commentary is quoted by the title of Tubzeeb. The feven persons first mentioned have also written comments on the Jama-i-kubeer; besides KA'ZEE ABOO ZY'D ABDOOLLAH, of Duboos; BOORHAN OO' DEEN MAHMOOD, author of the Mobeet-i-Boorbanee; Boorha'n o'o' DEEN ALEE, author of the Hidayab; SHUMS OOL AIM-MAH MOHUMMUD, called Hulwaee (the confectioner;) IEN-I UEDUR JOORJA'NEE; and JUMA'I, 50' DEEN MAHMOOD, of Bokhara, whose common designation is HUSEEREE (the mat-maker;) and whose second commentary is often quoted by the name of Tukreer. The Tukreer and Doorur are also known comments on the work in question; the former by Axoo't ABBA'S AHMUD; the latter by Na'SIROO' DEEN MOHUMMUD, of Damascus.

ther the texts, or comments, are now known to be in India, except an imperfect copy of the commentary of Ka'zee Kha'n, on the Jama'is sugheer, which was obtained from the library of the Nuwab of Oúth; and is in the possession of the Nizamut Adalut. Nor is there a treatise on the Mosulman law, written during the sour first centuries of the Hijrah, at present, in the possession of any person, from whom inquiry could be made upon the subject, at Calcutta.*

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The oldest work on jurisprudence in the possession of the law officers of the Nizamut Adalut, and other learned Mosulman lawyers, in Calcutta, is the Mokhtusur ool Kudooree, a compendium, or general law-tract, composed by IMA'M ABOO'L HOSE'N AHMUD, of Kudoor, a quarter of Bughdad, who died A, H. 428. It is often referred to in the Hidayah, and described in the Kushf oo' Zunoon as a book of authority in general use, and held in the highest estimation. It is said to contain twelve thousand

^{*} It does not appear that any work on jurisprudence was published during the first century of the Hijrah; or that any was written on the doctrines of ABOO HUNEEFAH, during the fecond century, except the treatifes, which have been noticed, of his two disciples ABOO YOOSUF, and IMA'M MOHUMMUD. In the third and fourth centuries, besides commentaries on the works of the latter, (which as fundamental authorities, are denominated Osool or Original) the following law-tracts are flated to have been composed; and are briefly described in the Kushf oo' Zunoon. An Adub ool Kazee and Nuwadir, by MOHUMMUD BIN-I-SUMA'AH, who died A. H. 233. Another treatife, of the former title, by ABOO HAZIM ABD OOL HUMEED, who died in 292. Several treatifes of the latter title, by IBN-I-ROOSTUM, HISHA'M, and others. Also books of both titles, and a compendium of the law, entitled Mokhtusur-i Tahavee, by ABOO JAFUR AHMUD of Taha in Egypt, who died A. H. 371; and who feems to be the author erroneously cited by the name of ABOO FAKA, in Mr. HAMILTON'S Prel. Dis. p. 38. Another compendium, entitled Mokhtusur-i Kurkhee, by ABOO'L Hose'n ABDOOLLAH of Kurkh (a ward in the city of Bughdad) who died A. H. 340. And a Nuwadir, with two other books, entitled Ouzoon and Nuwazil, by ABOO'L LY'S NUSUR, of Sumurkund. ASSAULT AMERICA I THE PARTY OF MA STREET MORROWALD IN THE PARTY OF THE

cases; and has been illustrated in numerous commentaries; among which several are quoted in the Futáwá-i-Aálumgeeree; but are not now known to be extant in Hindoostan.*

THE other books in actual use for expounding the Mohummudan law are of two descriptions. The first consists of texts and comments, which, in a scientific method, state the elements and principles of the law; establish them by proofs and reasoning; and illustrate the application of them by select cases, real or supposed; such as the Hidáyah, Kunz & dukáyik, Vikáyah, Nikáyah, and Ashbah & Nuzáyir, with their respective commentaries. The second description is commonly, but not always, distinguished by the title of Futáwá; and is, for the most part, a collection of law cases, arranged under proper heads, with a short recital of sacts and circumstances, without arguments, and with authorities only for the cases as quoted; being intended chiefly for practical purposes; whereas the

^{*} The titles and authors of the principal commentaries are as follow. The Siráj-i Wubha'j, and Jouburab-i-ny', yirab (the latter abridged from the former) by ABOO BUKR BIN-I-ALEE, commonly called Hudadee (the blackfmith). AHMUD BIN-I-MOHUMMUD also made an abridgement of the Siráj-i-Wubbáj, which is quoted by the title of Buhur-i-Zákhír. The Möbitumus bol ikhwan by ABOO'L MAA'LEE, of Ghuzna. The Kifayah, by SHUMS OOL AIMMAH ISMAEEL, of Byhnk. The Biyan, by MOHUMMUD BIN-I-RUSOOL of Toukat. The Lobab by Jula'l Aboo Saeed Mootuhur, of Buzdab. The Yunabee, a by Budr OO' DEEN MOHUMMUD, of Ushbeelee ab. The Kholasut oo' dula eel, by Hosa'm oo' DEEN ALEE, of Mukkah. The last mentioned commentary is highly praised, for its utility, in the Kushf oo' Zunoon, and is stated to have been further improved by the annotations of Inn-I Subreh oo' Deen Osma'n, a native of Tartary. Mr. Hamilton, (in his Prel. Difc. p. 36, 37,) has erronenoully mentioned the commentary of KUDOOREE, as quoted in the Hidayah, instead of his Mokhtusur. He appears to have made a further mistake in stating the commentary of KUDOOREE to be upon the Adub ool Kazee of ABOO YOOSUF, whereas no comment of that work is noticed in the Kushf oo' Zuncon; but Kudooree is specified as one of the commentators of the Adub ool Kazee of Khusa'r, mentioned in a preceding note.

clementary works first mentioned are more calculated for study and instruction. The Futáwá-i Kázee Khán by Fukr oo' deen Husun, of
Oúzjund in Furgháná, who was contemporary with the author of the
Hidáyah, and whose collection is esteemed of equal authority with that
celebrated work, must, in some measure, be excepted from the above
remark; as it illustrates many cases by the proofs and reasoning upon
which the decision of them is sounded.*

The other Futáwá extant in India, besides those already mentioned in the preceding pages and notes, are the Khuzánut öl Mösstieen, Futáwá-i-Buzáziyah, Futáwá-i-Nukshbundiyah, Mun'h öl ghusár, and Mokhtár öl Futáwá by unknown authors; the Fössool-i-Isturooshee, by Mohum-Mud Bin-i Mahmood, who compiled it in the 625th year of the Hijrah; the Futáwá-i Ibráheemsháhiyah, by Shahab ög' debn Ahmud, a native of Hindoostan, who composed it for Sool-fa'n Ibraheem Sha'h, at

A complete and accurate copy of the Futawa-i Kazer Khan, supposed to have formerly belonged to the royal library, is among the books of the Nizamut Adalut, obtained from Lukhnow. The author of the Kushf so Zunoon and the present Kuzer wit Közzát, concur is extolling this work, as replete with cases of common occurrence, and consequently of particular utility for practical reference. A digest (Moruttub) of the cases recited in it is also mentioned in the Kushf so Zunoon, as made in the seventh century of the Hijrah, by a learned Syrian, named Mohummud Bin-1-Möösmura, Afunder, and entitled Wubhajoo Shuree ut.

them, with fix other law books purchased at Lukhnow, by the Kázee vol Közzát, Mohummud Nujm öö' deen. It consists of thirty sections, upon Moâmulát only: like the Fössool vol Imádeeyah, beforementioned. The contents of both were arranged and incorporated in a collection, entitled Jamá vol Fössoolyn, by Budr öö' deen Mahmood; better known by the name of Ibni-Ka'zee-i-Suma'wunah, who died A. H. 823. The author of the Kushf ov' Zunoon states this work to be in great estimation with the learned, as a civil digest; but though often quoted as an authority, it is not known to be at present in India.

Jounpoor, in the 9th century of the Hijrah; and the Futawa-i Aalumgeeree, compiled at Dehly, by order of the Emperor Au'rungze's (also called Aa'lumgeere) in the 11th year of his reign, corresponding with A. H. 1067.

the comico of Anoc Yours and Incident THE Hidayah is so well known, from the English version of it, made by Mr. CHARLES HAMILTON, and published in the year 1791, that it will be unnecessary to say much of it. The Kazee ool Koozat, in his catalogue of books already adverted to, describes it in the following terms. " The Hidáyah is a commentary upon the Bidáyut öol Moobtudee, and both the text and comment were composed by SHY'KH BOORHA'N OO' DEEN ALEE, fon of ABOO BUKR, of Murgheenan, who lived to the age of fixty-two; and, after employing thirteen years in the composition of the latter work, departed from this world A. H. 593. The general arrangement, and divisions of it, are adopted from the Jamå i-Sugheer of IMA'M MOHUMMUD. It is celebrated amongst the learned for its selection of law cases, and connection of them with the proofs and arguments by which they have been determined. Wherefore in every age it has been efteemed by lawyers; many of whom have written comments and annotations upon it." It is spoken of in nearly the fame language, by the author of the Kushf oo' Zunoon, who adds, "it is a rule observed by the composer of this work to state first the opinions and arguments of the two disciples (ABOO YOOSUF and IMA'M Mo-

^{*} IBRA'HEEM SHAH reigned at Jounpoor (during the confusion of the Empire of Debly, confequent to the invasion of Tymoors) for forty years, and died A. H. 844. The court of Nizamut Ada'lut possess an entire copy of the work referred to; but it is a mixed collection, and not deemed authoritative.

nummun); afterwards the doctrine of the great IMA'M (Anon Hu-NEEFAH); and then to expatiate on the proofs adduced by the latter, in fuch manner as to refute any opposite reasoning on the part of the disciples. Whenever he deviates from this rule it may be inferred that he inclines to the opinion of ABOO YOOSUF and IMA'M MOHUMMUD. It is also his practise to illustrate the cases specified in the Jama-i-Sugheer, and by KUDOOREE: intending the latter, whenever he uses the expression he has said in the book. In praise of the Hidayah, it has been declared, like the Korán, to have superseded all previous books on the law; that all persons should remember the rules prescribed in it; and that it should be followed as a guide through life." This eulogium on the Hidayah is confirmed in a paper written by Mou'LAVEE MOHUM-MUD RA'SHID, one of the Mooftees of the Supreme Court of Judicature . and Courts of Sudr Deewinee and Nizamut Adalut, as well as one of the most learned Mosulmans in India; who remarks on the text, and some of the principal comments, to the following effect. " No text or commentary, now extant, can be compared with the Hidayah as a digest of approved law cases, illustrated by the proofs and arguments which establish them. It is therefore, with its comments, fit to be the standard of legal decision in the present times. Many commentaries have been written upon it: but four only, the Nihayah, Inayah, Kifayah, and Futh ool Kudeer, are forthcoming in Bengal. The Nihayah was first composed; and has superior credit as being the original from which the others have borrowed. But the author of the Inayah has merited esteem by his studious analysis; and interpretation of the letter and meaning of the Hidayah. The Kifayah also deserves commendation, from its concise

statement of the substance of other commentaries, as well as from some additions to them. And the Futh ool Kudeer is preserable to the whole, as an ample collection of cases, (rendering it equal in this respect to a Futawa) expressed with suitable brevity of language."*

THE Kunz 60' dukáyik has been already mentioned, as composed by HA'FIZ 00' DEEN, author of the Kásee and Wásee. It is a short ge-

[.] The Nibayah was composed by Hosa'm oo'Deen Hose'n IBNI ALEE, faid to have been a pupil of Boorha'n oo'DEEN, author of the Hida'yah. The latter having, from some unknown cause, omitted the law of inheritance, it has been added by the commentator. But this part of the Nihayah does not appear to have obtained equal celebrity with the Fura, eez-i-sirajee-yah mentioned in a former note. The Kushf 55' Zuncon notices two commentaries of the title of Ina'yah; the first of which was commenced by ABOO'L ABA'S AHMUD, a Ka'zee in Egypt, who died A. H. 710; and was completed in the succeeding century of the Hijrah by KA'ZEE SAEED OO'DEEN, of Dubur. The fecond, which is that referred to as extant in India, was composed by SHY'KH AKMUL ÖÖ' DEEN MOHUMMUD, who died A. H. 786; IMAM ÖÖ' DEEN AMEER KA'TIB BIN-I AMEER OMUR, who had previously written another commentary entitled Gháyutool biya'n, after employing himself for twenty-seven years at Caire, and other places, to render his fecond work more complete, finished the Kifa'yah, at Damascus, in the 747th year of the Hijrab. The Futh vol Kudeer is stated to have been commenced by its author Kuma'l 55' DEEN MOHUMMUD of Seewa's, commonly called IBN-1-HOMA'M, in the 29th year of the Hijrah; and to have occupied a confiderable part of the remaining period of his life, which was terminated in 861. Other commentaries upon the Hida'yah are mentioned in the Kushf oo' Zunoon; but as they are not procurable in India, it will be fufficient to notice the Fuwaced, by Humbed oo' Deen Albe, of Bokhara, who died A. H. 667; and is fupposed by some to have been the first commentator; but his tract, being extremely brief, has been fuperfeded by the fubfequent comments; the MIARA'J ŏŏ' DIRA'YUT, by KUWA'M ŏŏ' DEEN MOHUMMUD, also of Bokba'ra', who died A. H. 747; and whose commentary is quoted in the Adlumgeeree: and the Odah by Kuma'l oo' Deen Mohummud, also quoted; though it is described as rather an abstract, than a comment; being a methodical collection of the law cases contained in the Hidayah, without the arguments stated in proof of them. The Nibayah, 221 Kifayah, by TAJOO' SHUREEYUT OMUR, is also mentioned in the Kushf oo' Zunoon as a commentary on the Hidayah; but the Kazee vol Koozat, in describing an imperfect copy of it, belonging to the Nizamut Adalut, terms it a Hashee ah, or marginal note book. An incomplete copy of the Kifáyah is also among the law books of that court,

neral treatife of law, used in Mosulman Colleges, as an elementary book of instruction; but superseded, as a book of reference for legal exposition, by its commentaries; of which the following are extant in India. The Tubi cen dol hukayik, by FUKR do' DEEN ABOO MOHUMMUD Os-MA'N of Zyla, who died A. H. 743. His comment is valued by the followers of ABOO HUNEBFAH, as containing a complete refutation of the opposite doctrine of SHARIJEE. The Buhr oo rayik, by the learned-ZY'N OOL AA'BIDEEN IBN-1 NUJEEM of Fgypt, left incomplete, at his death, A. H. 970; and unequally finished by his brother SIRAL oo' DEEN OMUR, who also wrote a commentary entitled the Nuhr-i fayik, but of inferior merit to that of Zy'n ool AA'BIDEEN; which is held in the utmost estimation; and is spoken of in the Kushf do Zunoon as equalled only by the Futh ool Kudeer, IBN-1 HOMA'M's commentary on the Hidáyah. The Mutlub i fáyik or, as more generally called Aynee by BUDR oo' DEEN MOHUMMUD AY'NEE, of Dubur in Arabia. This commentary is also esteemed, as containing an ample collection of law cases. and though furpassed, in this respect, by the Buhr-i-rayik, it has the advantage of having been brought to a conclusion by the author; whose erudition obtained him the title of Ulama's, in common with Zy'n ool AABIDEEN.*

^{*} Another commentary on the Kunz 55 duka yik, entitled Maa dun, is known in India. But the name of the author has not been afcertained. The Eeza'b by Shykh Yahya, and Rumz 551 Huka'yik by Ka'zee Budr 55' deen Mahmood, are also noticed, with the names of some other commentators, in the Kushf 50' Zunoon; but they are not celebrated, or quoted as authorities. The court of Nizāmut Ada'lut possess an incomplete copy of the Bubroo' ra'yik; on which the Kazes 551 K53za't remarks (in his catalogue) that "it comprizes a compilation of cases, general and particular; with the useful result of the author's researches upon a variety of legal questions; and is received as authentic by the followers of Aboo Hunebfah in every city of Isla'm.

The text of the Vikáyah, composed in the 7th century of the Hijrah by Boorna'n oo' Shureeut Mahmood, son of the first Sudr & Shureeut, like that of the Kunz & Dukáyik, has been superseded, for legal consultation, by its more extensive commentaries; especially by that of the second Sudr & Shureeut, Oby'd oollah binil Musaood, who died A. H. 750; distinguished by the title of Shurhi-Vikáyah; and combining, with the original treatise, an ample comment in illustration of it. But both are used in Mosuman Colleges, for instruction in the science of law, preparatory to the study of the Hidáyah; upon which the Vikáyah is sounded; being, as its title at length imports, (Vikáyut & riwáyah, see Musácel il Hidáyah;) the Custos, guardian, or preserver, of the reports of cases in the Hidáyah. Other commentaries are mentioned in the Kushf & Zunoon; but they are not known to be extant in India; or quoted as authorities.*

Numerous Huwashee, or books of annotation, have also been written on the text and commentaries; of which the most celebrated is the Hasheeab of Yoosuf BIN-I-JONY D, commonly called AKKEE CHULPEE. This work, entitled Zukheerut vol Okba is in the possession of the court of Nizamut Adalut, who have also a correct and complete copy of the Shurh-i-Vikayab. It may be useful to add that a Persian translation of the latter has been made by a person named ABD JOL HUK SUJA'WUL, of Surbind; who in his preface, states it to have been completed A. H. 1076; during the reign of Au'RUNGZE'B. A copy of this version is in my possession. The language is not elegant; but it bears the character of accuracy; and with a careful revision, it may deferve publication. In bulk it does not much exceed a fourth of the Persian version of the Hidayah; made by the former chief Kazee, GHOLA'M YUHYA' KHA'N, and his learned affociates, employed for that purpose under the patronage of Mr. HASTINGS; a revised edition of which, under the superintendence of Mou'LAVEE MOHUM-MUD RASHID, is now printing, at my fuggestion, by order of Government; and besides facilitating the study of the Arabic text, will tend to explain and correct the English translation; which, though on the whole deferving of praise, has been found in some parts inaccurate, and in many less intelligible than the Persian version. It may be proper to add in this place, that in noticing, for obvious reasons, what has appeared upon inquiry to be erroneous or deficient

THE Nikâyah was abridged from the Vikâyah by the second Sudr oo' Shureeut, already mentioned as the principal commentator on the Vikâyah. It is also called Mokhtusur-i Vikâyah, and used as a book of instruction; the rules and cases contained in it being committed to meamory by the student. But its utility, for legal reference, is superseded by its commentaries; of which three are extant, composed by Aboo'l Muka'rim bin-1 Abdoollah, A. H. 907; by Abdool Alee, Bin-1-Mohummud Birjinder, in the year 935; and by Shums oo' deen Mohummud, of Khoristán, in 941. The whole of these comments are held in esteem; but the latter, entitled Jámã oo' rumooz, is the most copious.*

THE Ashbáh ó Nuzáyir is an elementary treatife, composed in the tenth century of the Hijrah, by Zyn ool Aa'bideen, already mentioned as the author of the Buhr-i-ráyik. It is stated in the Kushf oo Zunoon to consist of seven sections, (denominated fun); the two first of which relate to the general principles and rules of law; and the Kázee ool Kozát, in describing a copy of it, which belongs to the Nizámut Adálut, observes, that "although a short tract, it contains legal principia, from which numerous cases may be deduced; wherefore to able lawyers it is of the utmost advantage." Thirteen commentaries upon it are noticed in the Kushf oo Zunoon, but none of them are known to be in India.

in the late Mr. Hamilton's translation of the Hidayah, no intention whatever is entertained of impeaching the personal merits or reputation of that gentleman; who laboured under a material disadvantage in not having completed his arduous and laudable undertaking in India.

^{*} Complete copies of the three commentaries are among the books procured from Lukbnow; for the court of Niza mut Ada'lut.

⁺ Mou'LAVEE MOHUMMUD RA'SHID possesses two commentaries on the Ashbah o Nuza' yir,

Besides the texts and commentaries above described, as in actual use for legal expositions, the Mujmå oble buhryn, a text book composed by Mozuffur oo' deen Ahmud, of Bughdåd, A. H. 690, is also in the possession of a learned Mosulman in Calcutta, * together with one of its commentaries, written by Abd oo' Luteef Bin-i-Abd ool Azeez; but as no other copy of either the text or comment is known to be forthcoming; they cannot be in general use. †

one of which, called the Ghumzool Oyoon, was written by SY,YID AHMUD BIN-1-MOHUM-MUD HUMAVEE. The author of the other is unknown.

MOU LAVEE KUREEM ÖÖ' DEEN, by whom (in concert with Mou'LAVEE Mohum-MUD RA'SHID) I have been materially affilted in preparing the short account given of books on the Mohummudan law; and who has made for me a complete Persian translation from the Arabic original of the Kushf öö Zunoon. He received the Mujmā-ööl buhryn, and its commentary, from Shura'gur Mohummud Kha's, Meer Moonshee to the Nuwa's Mozurber Jung; who supported a Mudrusah at Moorshidabād, in which Kureem öö' deen was Modurris or Lecturer.

† In addition to the books on juriforudence, which have been noticed; the following are described in the Kushf 83' Zunoon; but none of them are known to be at present in Hindoortan. The Ajnas and Akka'm, by ABOOL ABA'S AHMUD NATIFEE, who died A. H. 446; the Tujnees o' Muzeed by the author of the Hidayab ; the Havee of Huseeree by MOHUMMUD-BIN-1-IBRA' HEEM, of Huseer, who died A. H. 505. The Futawa-i-kobra by Shaheed Hisa'm oo deen OMUR, who suffered martyrdom in the 536th year of the Hijrab. The Kholasut bol futlewa, by TAHIR BIN-1-AHMUD, of Bokbara who died A. H. 542. The Moolitukut, by Na'sir oo' DERN, ABOOL KASIM, of Sumurkund; finished A. H. 549. The Havee oll Koodsee by KA'ZEE JUMAL 66' DEEN ARMUD of Ghuzna, who lived in the latter part of the 6th century of the Hijrab. A Tulkhees (abridgement) of the Jama-i-kubeer, by KUMAL oo' DEEN MOHUMMUD, of Khilat, who died A H. 652. The Mokhtar, and its commentary, the Ikhtiyar, by Mujo "oo' DEEN ABDOOLLAH of Mossul, supposed to have flourished in the 7th century of the Hijrah. The Ghoorur sol Abkinn, and its comment, the Doorur sol hookbam, by MOHUMMUD BYN-1 FURA MOORZ, commonly called MOOLLA KHOOSRO, who died A. H. 887; and the Moollaka Tel Abhoor, by IBRAHEEM BIN-1-MOHUMMUD CHULPER (a Syrian) finished A. H. 923. Of these works the three last mentioned only are text books. The remainder (excepting the abridgement of IMAM MOHUMMUD's great Jama,) are collections of cases, of the nature of

Or the books of Futawa which have been mentioned, none appear to require further notice, except the Futawa i- Aalumgeeree. Mr. HAMIL-TON, by an extraordinary mistake, has stated this work to have been "composed in the Persian language,* by the authority and under the inspection of the Emperor Au'RUNGZE'B;" whereas it is well known to have been written in Arabic, the usual language of Mohummudan law and science; and to have been translated into Persian, by order of the Emperor's daughter, the Princess ZE'B oo' NISA'. Several copies of the Arabic original are in Calcutta; and some imperfect copies of the Persian version; or rather of parts of it. + In the catalogue of books appertaining

Fulawa. A further collection, entitled Khuzanut vol futuwa, by AHMUD BIN-I-MOHUM-MUD, is among the books of the Niza'mut Adalut, and supposed by the Kazee tol Kobzat to have been compiled towards the end of the 8th century of the Hijrah. Also a Persian compilation, named Futawa-i-Kurakhance, the cases included in which were collected by Moolla SUDR 50' DEEN BIN-I YAKOOB, and arranged, some years after his death, by KURA' KHA'N. in the reign of SOOLTAN ULA' oo' DEEN. The Kazee pal Koozat has likewife presented to the Nizamut Adalut a small Persian book, entitled Mokhtar 881 Ikhtiyar, written A H. 971, by Ikhtiyar fon of GHYA'S OO' DEEN HUSUN; containing, besides the duties of a Kazee and Montee, legal forms of various descriptions for practical use,

* Preliminary Discourse, p. 44.

white, of Sures was died at 11 tog The Futford Lin + Mr. H. COLEBROOKE possesses a folio volume, containing about half of the entire translation, from the commencement to the book upon evidence. I have also a volume which contains from the book on marriage, to that upon endowments, or religious and charitable appropriations. And, at my suggestion, the Governor General in Council has been pleased to instruct the Resident at Dehly to endeavor to procure two or more complete copies of the Persian version made by order of ZE'BOO' NISA', with a view to prepare a collated transcript, which may be hereafter printed and published. I have likewise a correct Persian translation of the book on Jinayat or offences against the person, made for me, a few years since, by MOU LAVEE SAEED OODEEN, (now law officer of the Burely court of circuit) under the fuperintendence of his father, the Kazee byl Kybzat, who has added notes of explanation where they appeared requifite. This version will probably be printed and published, as it well deferves to be. ment or free or Afon and one went Manty are collections of color

to the Nizamut Adalut (among which is an incomplete copy of the Arabic Futáwá i Aálumgeeree) the Kázee ool Koozát describes this work in the following terms:-" It was commenced A. H. 1067, corresponding with the 11th year of AA'LUMGEER's reign. Credible persons have related, that when MEERZA' KA'ZIM, author of the Aalumgeernamah, had finished, and presented to his Majesty, the history of the first ten years of the reign, it occurred to the King that there were many books of history in the world, and that from the inclination which mankind have to read fuch books, they are composed without orders from Kings and Nobles; that the foundation of good government is justice; and that this depends upon a knowledge of the ordinances of the law; that although the learned of every age had compiled expositions of the law, yet in some instances the examples were fo dispersed that they could not readily be found, when required; and in others, the cases of less weight were not distinguished from those adjudged to be authoritative; whilst some decifions also had been unnecessarily repeated; and others, though requifite, had been omitted; wherefore it was proper that, in the prefent reign, a new Futawa should be compiled, to be arranged in the most approved manner; and to contain the most authoritative decisions of law, including every useful case, which had been adjudged, without repetition or omission. As soon as the King had formed this design, he ordered MEBRZA' KA'ZIM to discontinue writing the Aálumgeernámah; and not to take in future the fum allotted for it from the royal treafury. He then affembled a number of eminent lawyers from the Punjáb, the environs of Shahjahan-abad, Akbur-abad, Ilah-abad, and the Dukhun; and employed them in compiling the work, which was afterwards

called the Futawa i Adlumgeeree. In truth no other Futawa is equal to it in excellence. It has become celebrated in every city, as well in Arabia as in other countries; and is termed at Mecca the Futawa-i Hind, or Indian expositions. It is esteemed by the learned of every country, and is received as an authority for law decisions in this empire." It is added, that six lacks of rupees are said to have been disbursed in stipends to the learned compilers, the purchase of books, and other expences attending the execution of the work.

THE Futawa i-Aalumgeeree being four times the fize of the Hidayah, and containing little more than a recital of law cases, without the arguments and proofs, which are diffusively stated in the Hidayah, it must possess an advantage over that work, for practical use, in its greater number of cases and examples. On the other hand, the full illustration of the law, its principles, and the different doctrines promulgated by some of the most eminent expounders of it, which distinguish the Hidayah, give an evident preserence to it as a book of elementary instruction. The authority of the Hidáyah, as an original composition by a celebrated jurist, who, from his superior knowledge and qualifications, was esteemed a Moojtahid, is also above that of the Futawa i Aalumgeeree; which, however valuable, as the latest and most comprehensive collection of cases, is held in less comparative estimation, from its being a modern compilation, made by feveral persons, of different judgment, and unequal ability. Without contrasting their respective merits, however, the one is universally admitted to be a most useful supplement to the other; and a conversance in both, or an easy means of reference to them in cases of judicial occurrence, must be of essential use towards the due administration of the Mohammudan law, as far as that law is declared to be the established rule and standard of decision.*

Mr. HAMILTON'S translations of the Hidayah renders it unnecessary to state the general contents of that work. The Futawa-1- halungeeree confists of 61 books (Kitab) in the following order :- 1. Tabarut, purification, 2. Sulat, prayer. 3. Zukat, alms. 4. Som, fasting. 5. Hujj, pilgrimage. 6. Nikab, marriage. 7. Ruzaa, fosterage. 8. Tulak, divorce. 9. Utak, manumission. 10. Ayman, vows. 11. Hoodood, fixed penalties. 12. Surikab, larceny. 13. Siyur, institutes or regulations concerning infidels, apostates, and rebels. 14. Lukret, foundlings. 15. Lööktah, troves. 16. Ibák, absconding of flaves. 17. Muskood, missing persons. 18. Shirkut, partnership. 19. Wukf, endowment; or religious and charitable appropriation. 20. Byá, fale. 21. Surf, exchange of coin or bullion. 22. Kufalut, bail. 23. Huwalut, transfer of debts. 24. Adub vol Kazee, the duty of a Kazee. 25 Shahadut, evidence. 26. Roojos, a un Shahadut, retraction of evidence. 27. Vukálut, agency. 28. Dáwá, claim. 29. Ikrár, acknowlegment. 20. Sool, h, composition. 31. Mozárubut, copartnership in stock and labour. 32. Wudee, it, deposit. 32. Aaeeyut, lending without return. 34. Hibab, gift. 35. Ijarab, hire and farm. 36. Mokātub, covenanted flave. 37. Wula, connection of emancipator and freedman; or of patron and client. 38. Ikráh, compulsion. 39. Hujr, inhibition and disqualification. 40. Mazoon, licensed slave, and ward. 41. Ghush, usurpation. 42. Shoofah, right of vicinity. 43. Kismut, partition. 44. Mozára, út, compact of cultivation. 45. Moã, ámulut or Mosákát, compact of gardening: 46. Zubayih, animals flain by Zubh, or incision of the throat. 47. Oazheeyah, facrifice. 48. Kurabiyut, abomination, disapprobation, or censure. 49. Tuburree, presumptive preference. 50. Ihyá vol muzwát, cultivation of waste land. 51. Shirb, right to water. 52. Ushribah, intoxicating liquors. 53. Syd, game. 54. Rihn, pledge. 55. Jinayat, offences against the person. 56. Wusaya, testamentary bequests. 57. Muhazir o Sijillat, judicial proceedings and decrees. 58. Shooroot, legal forms, 59. Hiyul, legal devices. 60. Khoonsa, hermaphrodite. 61. Furá, eez, rules of inheritance.

Of the fixty one books enumerated, fifty five correspond with similar titles in the Hidáyab. Two other books in the latter work, entitled Diyut (the fine of blood), and Mu, hakil (exaction of the fine of blood), are included in the F. Aslumgeeree, as chapters of the book of Jináyát. The book of Shirb in the F. Aslumgeeree forms a section of the book entitled Ibyá vol muwát in the Hidáyab. The remaining five books of the Futáwá-i-Aslumgeeree, viz. those entitled Tuhurree, Muházir o Sijillát, Shoorost, Hiyul and Furá, eez, are not included in the Hidáyab.

The general division and arrangement of both the Hidayah and Adlumgeeree appear to have been adopted from the Jama-i-Sugheer of IMA'M MOHUMMUD. The same order is also observed in most other works written by the followers of Aboo Huneefah; and the author of the Buhr-vo-rayik has endeavoured to shew that it is founded on a principle of suc-

ceffive connection. But his reasoning does not appear satisfactory. It may be useful to add, however, that the Mosulman law, in the most extensive sense of the term (Sburâ, or Deen-i-islám) comprehends the ordinances of religion, and the duties of man towards his Creator, as well as his rights and obligations towards his fellow creatures. It is therefore stated in the Buhr-i-rāyik to comprise five principal heads; namely, 1. lātikādāt, articles of saith. 2. Îbādat, acts of worship and piety: 3. Moâāmulāt, assaring of life, or civil transactions. 4. Muzājir, punishments for the prevention of crimes. 5. Adāb, manners, or rules of behaviour. In books of jurisprudence (fik-b) the first and last heads are omitted. The other three are included; and the head of Îbādāt always precedes the Moâāmulāt, and Muzājir, as of superior importance.

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An Account of Astronomical Observations taken at the Honorable Company's Observatory, near Fort St. George in the East Indies, in the years 1806 and 1807. To which are added some Remarks on the Declination of certain Stars and of the Sun, when near the Zenith of that place.

By CAPTAIN JOHN WARREN,

named flow at morning taled but anyone incharacteristical and aring

- 1. Major Lambton having fent his zenith fector to the Madras Observatory in September 1806, I began early in the enfuing month the observations which form the subject of the present paper. As an account of this instrument has already been given to the public, in a paper written by that gentleman, and published in the 8th volume of the Asiatic Researches, I shall only observe here that it came to me in high order, and that I observed constantly with it from October 1806 to June 1807, without perceiving any material change in its powers or mode of performing.
- 2. In undertaking a feries of observations of zenith distances, I had in view to establish permanently the latitude of the Madras Observatory, on which there seemed still to be a doubt of several seconds, and also to verify the declination of several stars near the zenith, which,

- g. This laborious and dry enquiry, I am aware can afford but little entertainment to the generality of readers. The present paper, therefore, can only claim the advantage of recording good observations, taken in great numbers, and computed with scrupulous attention: and perhaps of affording some data to astronomers in other climates, for surther investigation into the effects of refraction.
- 4. Although the method for correcting zenith distances at any given time, for abberration; nutation, and solar equation, is well known to astronomers, yet I do not omit giving a general statement of the manner in which I have applied these various corrections to my observations. Such as belong to Regulus are given in Table I. and may serve as an example for the rest. For the detail of each respective rule I must refer the reader to books of astronomy, for I have nothing new to offer on the principles upon which they are grounded.
- 5. I HAVE however to observe, that refraction being one of the subjects under consideration, I have computed it separately for every star, according to Dr. Bradley's theory, in which the state of the atmosphere at the time of observation is considered, and without any reference to the tables. The rule may be found demonstrated in Vince's Complete System of Astronomy, Chap. VIII. page 82, and following. I have reduced it, for a more convenient arrangement, into the following form:

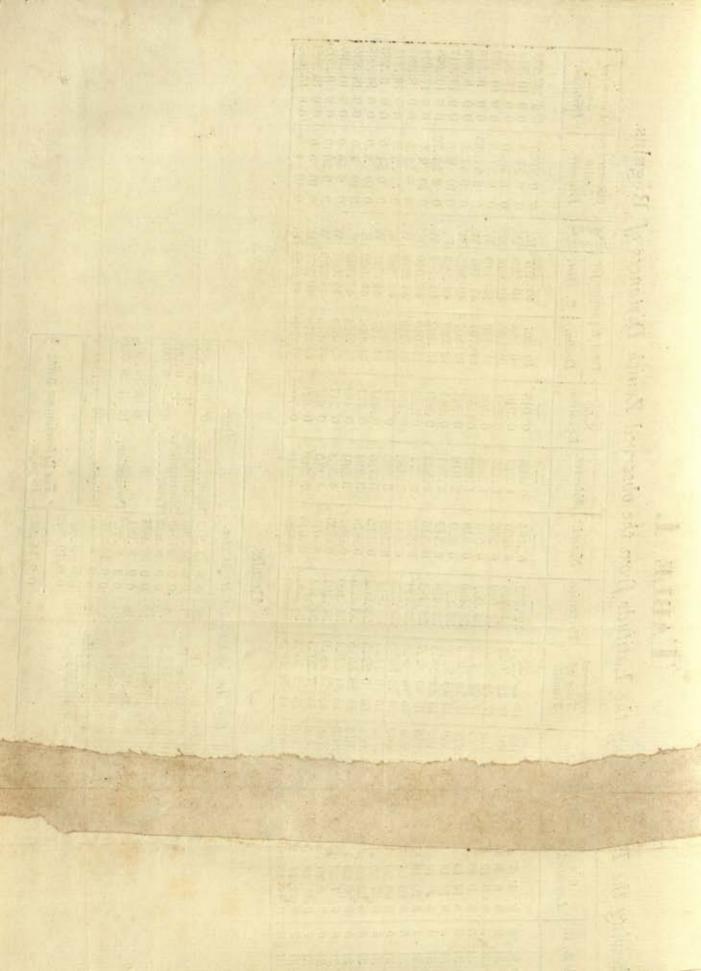
TABLE I.

| Total Equation for | Sie | Observed | Corrected Shewing the Processlucing the Latitude from the observed Zenith Distances of Regulus.

Zenith Distance.	100	0.9 16.293 0.9 10.219 0.9 10.219 0.9 10.360 0.9 10.068 0.9 10.068 0.9 17.951 0.9 17.951 0.9 18.281 0.9 18.283 0.9 18.283 0.9 18.283 0.9 18.283 0.9 18.283 0.9 18.283	
Zenith Distance.		0 9 56'55 0 9 51.8 0 9 51.5 0 9 51.5 0 9 51.5 0 9 51.5 0 10 2.0 0 9 52.5 0 10 2.0 0 10	
Timp	T	日本の大学の大学の大学の大学の日本	
Z. Dist. Face	1	40°.207 40°.588 40°.588 41°.140 41°.140 42°.983 43°.122 44°.049 44°.727 44°.902 45°.164 45°.691 46°.695 46°.777	
Total Equ.		40′.207 40.588 40.558 40.959 41.140 41.740 42.983 43.129 44.049 44.389 44.727 44.902 45.164 45.691 46.695 46.777	
Solar Equation.	-	0.049 0.084 0.101 0.101 0.264 0.281 0.289 0.289 0.289 0.489 0.489 0.489 0.489 0.547 0.629 0.629	
Abberrat.	1	07.266 1.213 1.449 1.562 1.920 2.513 2.513 2.513 2.513 3.788 3.788 3.788 3.394 4.358 4.358 4.358 5.000 5.549	
Nutati.		6, 1994 6, 500 6, 500 6, 510 6, 519 6, 543 6, 543 6, 543 6, 563 6, 563 6	
Precession		32. 732 32. 826 32. 920 32. 920 33. 108 33. 485 33. 485 33. 485 33. 721 33. 721 33. 909 33. 909 34. 100 34. 100 34. 1521	-
Apparent	Transil.	17 49° 32° 1 17 49° 0° 2 17 32° 25° 6 17 128 7° 2 16 48 56° 9 16 49 55° 5 16 40 97 7 16 18 5° 8 16 9 14° 3 16 0 92° 3 15 55 56° 8 15 51 38° 4 15 51 38° 4 15 52 56° 2 14 32° 21° 8	
11.00	s Decum.	4 26".198 4 26 .104 4 26 .010 4 26 .010 4 25 .892 4 25 .892 4 25 .892 4 25 .892 4 25 .162 4 25 .162 5 4 25 .021 5 4 24 .739 5 4 24 .739	
Place	S, D	900000000000000000000000000000000000000	
8,0	Longitude.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
4 1 4 70	Mar's A. K.	99999999999999999999999999999999999999	
Months	Days.	Nov. 26. 30. 30. 30. 10. 11. 11. 12. 13. 22. 22. 22. 23. 27.	

Regults.

		7
Mean.	Wes Wice	3 in paper.
Right Arc.	0 9 10 .212 0 9 10 .360 0 9 9 .549 0 9 8 .281 0 9 9 .273 0 9 9 .273 0 9 9 .305 0 9 9 .629 0 9 10 .025	0 9 14 .39
1806-7	288. Dec. 1. 10. 118. 21. 27.	
206-7 Left Arc.	0.9 16.293 0.9 17.041 0.9 17.041 0.9 17.951 0.9 18.098 0.9 18.283 0.9 18.283 0.9 16.652	
Pane-7	Mean, Mean	



Corrected Refraction R = $\frac{\text{Tangt.} \overline{Z} - 3r \times R' \times \overline{A} \times 400^{\circ}}{h + 350^{\circ}}$

The following example will shew the notation.

Crample.

The mean observed zenith distance of Regulus by observations is 0° 9' 14'.326 = Z.

The refraction due to 45° altitude, as established by experiments, and very near the level of the sea is 50" = R'.*

The mean altitude of barometer at the time of observing was 30.035 inches $= \alpha$.

The general medium height of Mercury is 29.6 = A.

The mean altitude of thermometer at the time of observation was 71° .

= h.

Rule.

Tangt,
$$Z = 0^{\circ}$$
 9' 14".326 log. 7.4293310
 $3r = 0.402 R' = 50' log. 1.6989700$
9.1283010 N. N. 0.134
 $3r = 0.402$

Tangt.
$$Z-3r=0^{\circ}$$
 9' 13".924 log. 7.4290229
 $R'=50'$ log. 1.6989700
 $\frac{a}{A}=\frac{30.035}{29.6}$ log. 0.0062636
 400 log. 2.6088284
 $h+350=421$ log. 2.6242821
Corrected Refract, $R=0.131$ N.N. 9.1188028

The quantity R', which represents the refraction due to 45° altitude (where Rad. == 1) is given in BRADLEY'S Tables == 57". But for obvious reasons I have presented LE GENTIL'S quantity, as his experiments at *Pondicherry* appear to me unexceptionable.

- 6. I was at first doubtful respecting the best mode of obtaining a very accurate mean latitude for the Observatory, and hesitated between making a selection of a certain set of stars whose declination was determined at Greenwich after the same method, and with the same instruments; or taking the whole mass of my observations without adverting to the catalogues either English, French, or German, from which I had taken the declinations.
- when I began writing this paper, I might have been induced to think the feparate catalogue in Table II. unnecessary, since the two means only differ by o".361. However, I was, at the time, determined by an opinion that the results of a few very accurate operations were always preserable to the mean of a great number of indifferent ones, and chose therefore twelve principal stars (six on each side of the zenith) the declinations of which are given in Dr. Maskelyne's catalogue for January 1802. With these I constructed Table II, to which I particularly wish to call the attention of the reader, as every thing that I shall say hereafter is grounded on the mean latitude which is derived from it.
- 8. In this catalogue, the maximum of deviation in the respective latitudes is only 4".551, and their gradual decrease as the stars become more southerly indicates that this difference is not solely to be attributed to inaccuracy in the observation; for it is to be observed that the regularity of this decrement (which is scarcely interrupted) cannot al-

TABLE II.

Shewing the Latitude for the Madras Observatory such as derived from 12 Principal Stars.

Bnewin	gu	ne i	Latitude Joi	DIDO TITUE			0	Jen-Par		VI	XII.	XIII.
1	III.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	AII.	-
Names and Characters of Stars.	Magnitudes.	Num. of Obs.	Interval during when observed.	Mean Decli- nation from Greenw. Cat. for 1805.	Observed Zen. distances cor- rected for Ab- ber. Nut. and Solar Equati- on.	ieig iert	Thermometer.		Corrected Ze- nith distances.		Mean by Northern and Southern Stars.	Mean Lati- tude.
Arcturus, Aldebaran, β Leonis, α Herculis, γ Pegasi, γ Pegasi, γ Ophiuchi, α Orionis, α Serpentis, Procyon	1 1 2 3 2 2 1 2 2 1 2 3	20 16 20 16 16 12 18 10 16 20	Feb. 6. Mar. 20. Oct. 30. Dec. 9. Jan. 2. Feb. 24. Mar. 27. Apr. 24. Oct. 25. Nov. 14. Oct. 25. Nov. 14. Nov. 28. Jan. 12 Mar. 15. Apr. 22. Apr. 28. Jan. 9. Nov. 7. Jan. 15 Mar. 9. Apr. 9 Nov. 8. Jan. 23	20° 12′ 14′′ .426 16 6 23 .830 15 39 48 .544 14 37 27 .091 14 9 38 .050 14 6 1 .906 12 54 58 .930 12 42 50 .910 8 21 53 .530 7 21 36 .670 7 9 59 .390	7° 7′ 52′ .639 3 2 7 .348 2 35 31 .288 1 33 10 .870 1 5 22 .312 1 1 47 .135 0 9 14 .326 0 21 22 .362 4 42 15 .821 5 42 29 .526 6 1 8 .002	Inches 29,975 29,983 30,019 29,966 29,966 29,966 29,862 30,035 29,993	75° 77 74 81 83 81 71 84 85 74 80	3 .874 4 .855 5 .043	3 2 9 .905 2 35 33 .485 1 33 12 .158 1 5 23 .214 1 1 47 .991 0 9 14 .504 0 91 29 .655 4 42 19 .695 5 42 34 .381	13 .829 15 .077 14 .933 14 .836 13 .915 13 4 13 .434 13 .565 13 .925 11 .051 12 .435	13* 4'14".721	13° 4' 13′ 654.

THE PARTY OF THE P The state of the s THE RESERVE OF THE PARTY OF THE The second secon THE RESERVE OF THE PARTY OF THE The state of the s The state of the s The state of the s

TABLE III.

Shewing the Latitudes for the Madras Observatory such as deduced from 52 Stars near the Zenith by 500 Observations.

ζ Geminorum, γ Leonis,	to to Magnitudes.	No. of Obs.	Period during which observed.	Mean Declin. January 1805.	Corrected nith dista Minus Re	nces	Refraction.	Corrected Ze- nith Distances.	Latitudes.	Corrected Declinations for Jan. 1805.	
Arcturus,		16		The state of the s		Lings	7		CONTRACTOR OF THE PARTY OF THE		04-11
β Arictis, β β Bootis, β δ Arictis, β δ Cancri, β σ Sagittæ, β σ Bootis, β σ Geminorum, β δ Leonis, β Λ Leonis, β Λ Leonis, β Λ Leonis, β σ Pegasi, β γ Pegasi, β ρ Delphini, β Λ Aquilæ, β	1 3 3 3 3 4 4 4 4 4 4 4 4 4 5 2 2 3 3 1 2 2 3 3 4 4 5 4 5 4 5 4 5 4 5 4 5 5 2 2 3 3 5 4 5 5 5 5 4 5 5 5 5 5 4 5 5 5 5 5	10 20 6 10 8 12 18 6 6 6 14 8 8 20 20 12 16 16 16 12 8 6 4	Feb. 19. March 30. Dec. 21. Jan. 12. Feb. 6. March 20. May 10. and 27. Oct. 28. Nov. 13. Jan. 24. Feb. 11. Oct. 28. Nov. 14. Nov. 30. April 10. April 28. May 5. March 5. and 20. Dec. 2. Feb. 12. Dec. 10. Jan. 2. March 12. April 5. Oct. 30. Dec. 9. Jan. 2. Feb. 24. Oct. 28. Nov. 13. March 27. April 24. Oct. 25. Nov. 13. Oct. 25. Nov. 13. Oct. 25. Nov. 14. Oct. 24. Nov. 6. Jan. 14. Feb. 7. April 28. May 2. Feb. 19. and 26.	20 49 26 20 12 14 .42 19 55 6 19 51 2 19 22 58 18 58 50 .95 18 51 47 17 34 34 17 15 46 16 33 18 16 29 40 16 18 35 16 6 23 15 8 49 14 87 27 .09 14 9 38 .05 14 6 1 .906 13 55 36 13 54 54 13 35 8	7 7 52 6 50 42 6 46 42 6 18 30 5 54 52 5 47 26 4 30 11 4 11 25 3 28 59 3 25 26 3 14 11 5 2 7 2 35 31 2 4 34 1 33 10 1 5 22 1 1 47 0 51 21 0 50 44 0 30 49 0 7 33	.151 .639 .566 .181 .041 .869 .541 .164 .581 .806 .001 .483 .848 .298 .103 .870 .870 .870 .905 .213 .051 .311	6'.536 6.540 6.051 5.731 5.679 5.332 5.010 4.913 3.720 3.506 3.216 2.994 2.705 2.557 2.197 1.748 1.228 0.902 1.857 0.709 10.713 0.423 0.104		15'4' 18".091 15 .509 15 .736 17 .703 14 .140 22 .627 13 .071 15 .546 19 .116 16 .913 14 .978 11 .005 20 .812 13 .829 15 .077 13 .149 14 .933 14 .836 13 .915 13 .3866 9 .076 18 .526 14 .325	19 51 1 .294 19 29 48 .907 18 58 51 .313 18 51 44 .888 17 34 28 .318 17 15 42 .521 16 33 16 .456 16 29 42 .429 16 18 27 .702 16 06 23 .339 15 39 46 .919 15 8 49 .285 14 37 25 .592 14 9 36 .648 16 6 1 .425 13 55 36 .048 13 54 58 .360 13 35 2 .905 13 11 46 .709	+0 .863 -2 .112 -5 .682 -3 .479 -1 .544 +2 .429 -7 .298 +0 .339 +1 .639 +1 .498 -1 .402 -0 .475 +0 .048 +4 .360 -5 .095

Regulus, 1 18 Nov. 28. Jan. 12. 12 54 58 93 0 0 9 14 396 0 131 0 9 14 504 13 458 930 0 0 0 0 0 14 396 0 131 0 9 14 504 13 458 930 0 0 0 0 10 12 22 3652 0 12 23 6655 13 565 13 452 13 455 0 779 0 0 131 28 26 16 Nov. 10. Jan. 10. 12 35 18 8 0 0 27 55 .057 0 .395 0 27 55 .452 13 453 12 25 16 50 779 0 0 131 28 26 18 18 18 18 18 18 18 18 18 18 18 18 18	Names of Stars.	fag. No	of Period during wch.ob	Mea. Dec. 1805.	Corr. Z. d. — Refraction.	Refrac.	Cor. Z. dist.	Latitudes.	Cor. Declin.	Difference
	α Ophiuchi, α 2 Cancri, α Cancri, ε Virginis, λ Herculis, ι Leonis, ι Leonis, α Cancri, δ Serpentis, ο Leonis, ε Delphini, Σ Cophiuchi, ρ Leonis, μ Cancri, μ Orionis, α Cancri, μ Orionis, α Aquilæ, ν Virginis, α Orionis, α Serpentis, α Orionis, α Aquilæ, γ Orionis, α Serpentis, μ Aquilæ, γ Orionis, α Serpentis, μ Aquilæ, γ Orionis,	2 1 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	March 15. April 25	. 12 42 50 .91 . 12 36 18 .0 . 12 21 48 .0 . 12 9 28 .0 . 12 0 40 . 11 55 5 . 11 56 12 . 11 26 45 . 11 12 4 . 10 46 25 . 10 39 5 . 10 29 54 . 10 18 28 . 10 3 57 . 9 46 29 . 9 38 10 . 9 17 6 . 8 59 18 . 8 33 17 . 8 23 20 . 8 21 53 . 7 37 26 . 7 21 37 . 7 5 48 . 7 2 59 .39 . 6 58 38 . 6 9 43	0 21 22 .362 0 27 55 .057 0 42 21 .166 0 54 46 .352 1 3 31 .500 1 9 8 .678 1 27 57 .806 1 37 23 .593 1 52 9 .203 2 17 43 .940 2 24 51 .228 2 34 18 .886 2 45 42 .388 3 0 10 .875 3 17 27 .977 3 23 0 .693 3 46 59 .187 4 4 49 .456 4 30 44 .501 4 40 48 .397 4 42 15 .821 5 26 45 .945 5 58 15 .794 6 1 8 .002 6 5 32 .359 6 54 22 .193 7 21 5 .552	0 .293 0 .395 0 .579 0 .791 0 .887 0 .958 1 .203 1 .333 1 .561 1 .961 1 .984 2 .147 2 .335 2 .510 2 .800 2 .870 3 .209 3 .392 3 .791 4 .018 3 .874 4 .467 4 .855 5 .089 5 .043 5 .024 5 .865 6 .266	0 21 22 .655 0 27 55 .452 0 42 21 .745 0 54 47 .143 1 3 32 .587 1 9 9 .636 1 27 59 .009 1 37 24 .926 1 52 10 .764 2 17 45 .901 2 24 53 .212 2 34 21 .033 2 45 40 .053 3 0 13 .385 3 17 30 .777 3 26 3 .563 3 47 2 .396 4 4 52 .848 4 30 48 .292 4 40 52 .415 4 42 19 .695 5 26 50 .412 5 42 54 .381 5 58 20 .883 6 1 13 .045 6 5 37 .383 6 54 28 .158 7 21 11 .802	13 .565 13 .452 9 .745 15 .143 12 .387 14 .636 11 .009 9 .926 14 .764 10 .901 3 .58 .212 4 .15 .033 8 .053 10 .385 3 .59 .777 4 .14 .563 8 .396 10 .848 5 .292 12 .415 13 .225 16 .412 11 .051 8 .883 12 .435 15 .583 11 .158 11 .812	12 42 50 .779 12 36 17 .982 12 21 51 .689 12 9 26 .291 12 0 41 .047 11 55 3 .798 11 36 14 .425 11 26 48 .508 11 12 2 .670 10 46 27 .533 10 39 20 .222 10 29 52 .401 10 18 33 .381 10 4 0 .049 10 46 42 .657 9 38 9 .871 9 17 11 .038 8 59 20 .586 8 33 25 .142 8 23 21 .019 8 21 53 .739 7 37 23 .022 7 21 39 .053 7 5 52 .551 7 3 0 .389 6 58 36 .051 6 9 45 .276	$\begin{array}{c} -0.131 \\ -0.018 \\ +3.689 \\ -1.709 \\ +1.047 \\ -1.202 \\ +2.425 \\ +3.508 \\ -1.330 \\ +2.535 \\ +15.222 \\ -1.599 \\ +5.381 \\ +3.049 \\ +13.657 \\ -0.129 \\ +5.038 \\ +2.586 \\ +8.142 \\ -1.019 \\ -0.739 \\ -2.978 \\ +2.055 \\ +4.551 \\ +0.999 \\ -1.949 \\ +2.276 \\ \end{array}$

TABLE IV.

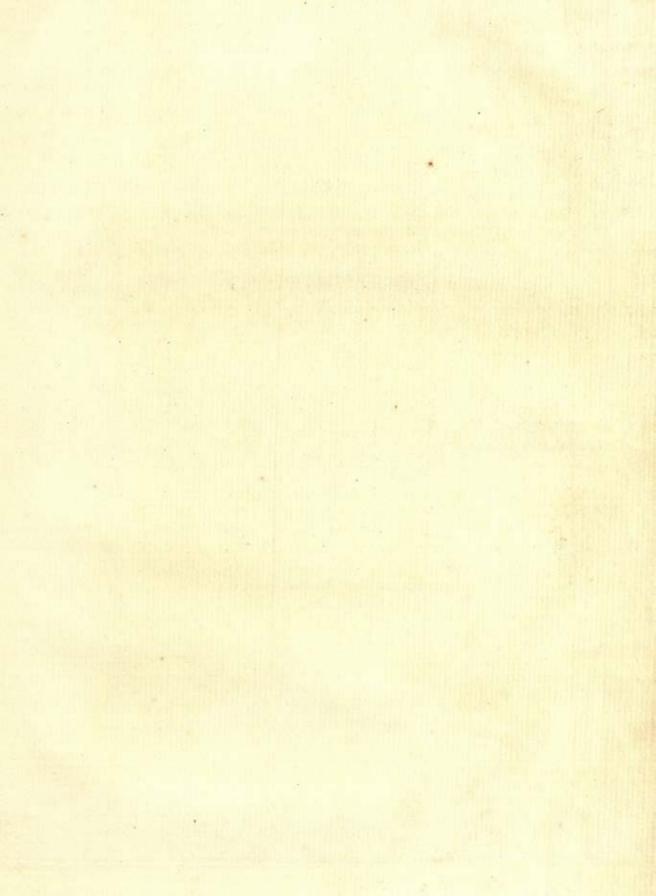
Shewing the Latitudes given by Stars as observed North or South of the Zenith.

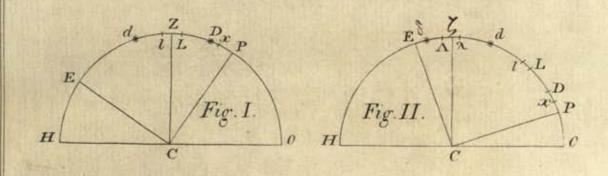
The state of the s	
Name of Places where observed.	Names and number of Stars observed by. Latitudes by Latitudes by Stars South of the by N. Mean Latitudes the Zenith. Zenith. of Z.
Coringa in the Northern Circars.	By 15 Stars North of Zenith, with Sextant,
Paughur in the 1	ε Bootis, δ Leonis, β Leonis,
Paudree in the Carnatic.	Aldebaran,
	Arcturus, Aldebaran, β Leonis, α Herculis, α Pegasi, γ Pegasi, Regulus, α Ophiuchi, Attair, α Orionis, β Leonis, Procyon, TABLE III. By 23 Stars N. of Zenith, with the Zenith Sector,
Fort St. George.	TABLE V. By 11 Observations of ⊙ N. of Zenith,
Dodagoonta near Bangalore in the Mysore.	Arcturus, 2 Hercuits, Markab, γ regasi,
Trivandaporam in the Carnatic.	E Virginis, & Serpentis, Aldebaran, Regulus, Orionis, 11 44 50 . 55 11 44 41 . 45 } 9 . 50 11 44 47 . 78

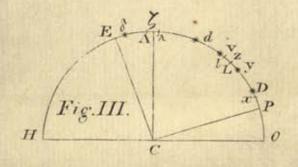
TABLE V.

Zenith Distances and Latitudes by the Sun, April and May 1807.

Days on which observed.	Zenith dist. of O's centre.	Corresponding Latitudes.	Mean of Lat. by Northern and Southern Z. distances.	Mean Lat.
April 15. 16. 18. 19. 20. 21. 23. 24. 25. 26. 27. 28. 30. May 3. 5. 8. 9. 11. 12. 13.	3 15 19 .065 2 32 35 .999 2 11 52 .124 1 51 0 .725 1 30 26 .776 0 49 45 .564 0 29 41 .305 0 9 56 .739 © North. 0 9 39 .001 0 29 2 .604 0 48 11 .508 1 25 53 .806 2 20 39 .055 2 55 54 .866 3 46 40 .172 4 35 0 .418 4 50 35 .340	13° 4′ 4″.949 4 3.265 4 7.619 4 3.524 5 59.525 4 1.276 3 59.564 3 58.004 4 2.339 4 3.389 3.496 5.692 4.389 2.345 0.134 5.228 5.588 8.652 3.560 6.449	13°4′2′.207	15.4/3/.328







Con

together be afcribed to chance; and it was this confideration which led me to examine whether I could not discover some law by which it was governed.

- 9. For this purpose Igathered all the observations which I could collect, and from as many different places in the *Peninsula* as I could, provided they were obtained in sufficient numbers at each place. These being arranged in the order of the declinations, and the mean results of northern and southern zenith distances being taken separately, I noticed invariably (though in unequal degrees) a small excess in the northern, and defect in the southern sets.
- 10. An abstract of these deviations is given in Table IV. and the reader will do well to refer to it in order to judge of the consistency of the preceding remark, and of the solidity of what I have further to say on the subject.
- vations taken north of the zenith to give too great a latitude, and the contrary of the fouthern ones, I shall now endeavour to account for this circumstance as follows.
- 12. Let Z (Plate VI. Fig. 1) be the true zenith of any place, E D, and E d, the declinations of any two stars, one north, the other south, and nearly at equal distances from the said zenith. By the present experiments, if we use the declination of D, the latitude will fall somewhere in L: but if we use the declination of d, then it will fall on the opposite side, somewhere in l. Therefore the sum of the zenith

diffances D L + l d, will fall short of the differences of declinations E D, and E d by the small arc L l.

- 13. Let now the zenith be altered into ζ (Fig. 2) fo that d be now north of it, and let δ be the place of a third star, south of the zenith ζ . Then if we use the declination of d (which before gave us too low a latitude) it will now give it in λ ; and if we use that of δ it will fall in Λ south of the true zenith: so that instead of having $ED E\delta = \text{sum}$ of the four zenith distances, we have it $(Fig. 2) = DL + Ll + ld + d\lambda + \lambda\Lambda + \Lambda\delta$. That is, the four observed distances + the small arcs $Ll + \lambda\Lambda$. Therefore, if we suppose the declination ED to have been well determined, that of d is too low by the arc Ll, and that of δ , by $Ll + \lambda\Lambda$.
- 14. For example; let the true place of Aldebaran be at x, and its apparent place (affected by the error in the declination) be at D, Regulus at d, and a Orionis at 3: then by the observations at Paudree and Trivandaporam we have

Now the mean declination of Aldebaran being

Equal - - - - - 16° 6' 23" .73

And
$$\alpha$$
 Orionis = 7 21 36 .61

We have $ED - EA$ 8 44 47 .12

8 44 31 .45

Diff, $L l + \lambda \Lambda = - - - 15$.55

and in order to have separately the values of these quantities, we have at

At Trivandaporam,

Latitude
$$E_{\lambda}$$
 by Regulus - 11° 44′ 49″ .329
 E_{Λ} by a Orionis - - - - 41 .678
Difference $\lambda \Lambda - - - - - - - - 7$.879
Hence $L l + \lambda \Lambda = 7''.678 + 7.879 = 15.557$ as before.

15. It is therefore evident, that taking the declination of Aldebaran to be correct, and the observations good, then the declination of a Orionis should be increased by 15''.557. Again, if we revert to what I have said higher up (Para. 7)* it may be inferred, that these errors proceed from assigning originally too great a difference of polar distance between the extreme stars from which the mean latitude is deduced (as for example between Arcturus, and Procyon): hence the mean latitude, which is derived from both, will fall somewhat too low; both on account of the excess of this arc, and also of the error of polar distance of PD - Px.

- 16. It follows from this, that the fuccessive small arcs of declination Dy, yv, vd, d & (Fig. 3) will severally be too great, and this seems to be the case with the declinations of the twelve stars registered in Table II.
- 17. It is true that in the foregoing example, where I have compared the refults given by Aldebaran, Regulus and a Orionis, I have felected an

^{*} See also infra, Pa. 17.

extreme case; but it is likewise evident, from what appears in Table IV. that were the mean of any number of northern and southern stars, to be taken separately at any two places of different latitudes, and in the order here described, the deviation would tend the same way as in the above exposition; and this, it may be supposed, by a certain quantity, thrown in from a distant zenith, on account of refraction, which cannot be corrected here for the quantity Px, nor done away by that due to the small arcs Dy near the zeniths. Also that the latitude of ζ will fall too low by a cartain quantity $(PD - Px)Dx + \frac{Dt + \lambda \Delta}{n}$, where Dx is the whole error affecting the declination of D; and the divisor n, will be in some proportion of the error affecting the whole arc $D\delta$ (always in excess) from the extremities of which the mean latitudes of Z and ζ were deduced.

- 18. With the mean latitude given in Table II, we can therefore be no otherwise satisfied than from the following consideration, which as far as it affects our latitude seems to reduce the error $D x + \frac{L l + \lambda \Lambda}{n}$ to a mere nothing.
- 19. Regulus, a star of the first magnitude, no doubt attentively observed from every part of Europe, owing to its being very near the ecliptic, and situated only 9 minutes and 14 seconds from the zenith of the
 Madras Observatory, gives a latitude differing only from the mean results in Table II. by o''.22. This, no doubt, will be admitted to be a
 strong indication, that its declination, such as laid down in the tables, is
 very accurate. Regulus may therefore, without inconveniency, be taken
 as a visible point in the heavens, from which to lay down the position of

Chica valuey.

the other stars; by this means the zenith distances applied to it will give results consistent both with the observations at *Greenwich*, and at *Madras*, and thus form a link by which the two zeniths may hereafter be connected.

20. For this reason, in computing the Xth column in Table III. I have adopted the following process:

I

Declination of Regulus, --- 12° 54′ 58″ .930

Zenith distance of do. --- 0 9 14 .504

Z. D. of Arcturus N. --- 7 7 58 .690

Corrected declin. of Arcturus, 20 12 12 .124 N.

Titions pould after orderer remains not deliber that the firm gave a level

Zenith distance of Regulus, - - 0 9 14 .504

Zenith distance of Frocyon, - - 7 21 11 .802

Dalob ni shwall araw and Difference, - 7 11 57 .298 and and

Declination of Regulus, - - 12 54 58 .930

Corrected declin. of Procyon, 5 43 1 .632

Madras Observatory, wherewith to take accurately great zenith distances; for corresponding observations of stars near the zenith of Greenwich and of Paris, would have afforded powerful means for correcting, after the same manner, the declinations of all stars in that extensive space of the heavens which divides the two Observatories.

ON THE SUN'S DECLINATION.

22. It is a fact deserving of notice, that the medium of 20 observa-

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Therefore a = 45524; P = 1186; Q = -12, and $x = \frac{61.587}{48}$; and $y = \frac{61.587}{48}$ = a + Px + Qx. $\frac{x-1}{9} = 13^{\circ} 4' 3''.159$, which differs only from the mean latitude by the fun (Table V.) by o".169.

- It is, I own, no eafy matter to give a reason for so great a devia-The difference between this position of the sun when in the parallel of the Observatory, and the latitude of that place as given by the stars, being 10".326, no error in the difference of longitude affumed between the Greenwich and Madras Observatories can account for it. For if we take y = 13° 4' 13".654 or 47053".654 (Table II.) then refolving the equation we have, $x = -\frac{z-1}{2} \pm \sqrt{\frac{z-1}{2}}^2 + \frac{2y-2a}{0} =$ 1.day 28912 or 1 day 6h 56m 19s .9, which gives a difference of 8 minutes and 43 feconds of time for moving through 10".326 of a degree in declination. So that if we suppose the fun to be in the parallel given by the flars, the interval of time allowed for the difference of longitude between Madras and Greenwich must be diminished by that quantity, which is far beyond any uncertainty that may still subfist on that head.
- 29. AGAIN; as to the time of apparent noon at Madras, the fun's transit was always observed with the fixed transit instrument, whilst I was observing it with the zenith sector; and these contemporary obfervations agreed always to a fecond of time. There can therefore be but little irregularity to apprehend from this element, and we are compelled, though under equal objections and difficulties, to ascribe the error to the declination either as affigned to the fun in the ephemerides, or to the stars in the catalogue for 1802; and I believe the former are the most likely to create suspicion.

ments and affiduous practice, the cause can only be ascribed to that important correction on which we are still so very uncertain: and on this I shall venture an opinion, not altogether unsupported by experiments; * which is, that the declination of the sun being deduced from observations taken at noon, and that of the stars at night time, the effects of refraction at these different periods may possibly vary materially, and what is allowed for zenith distances of the stars, be too much for zenith distances of the sun; a surmise which explains at once why the sun, in the present instance, gives a lower latitude than the stars. This strongly suggests the expediency of surther experiments for ascertaining a point, which, if established, would be highly conducive to important discoveries, in an interesting but impersectly known branch of natural philosophy.

JOHN WARREN.

a least language of

OBSERVATORY, near Fort St.)
George, 1st of March, 1808.

[•] See Asiatic Researches Volume IX. Article 1st, Page 13, on experiments on terrestrial refraction, where the refraction at night was something more than double what it was in the day time, owing (it is supposed) to the increased moisture of the atmosphere,

IX.

TRANSLATIONS of two Letters of Nadir Shah, with Introduc-

BY BRIGADIER GENERAL JOHN MALCOLM,
TO HENRY COLEBROOKE, Esq.

President of the Asiatic Society.

3.

My DEAR SIR,

IN the course of researches into the history of Persia, my attention was particularly drawn to a collection of letters, and original state papers, of Nadir Shah, published after his decease by his favorite secretary Mirza Mehedi. This collection is held in the highest esteem in Persia, not only from the light it throws upon the history of that nation but from the stile in which it is written, and which is considered to be the best model for those who desire to attain excellence in this branch of writing.

I HAVE the pleasure to transmit, for the consideration of the Asiatic Society, translations of two of these letters which appear to be strongly illustrative of the character of NADIR SHAH, and the history of the period at which they were written, and which may perhaps be deemed on that account not unworthy of a place in the Society's Researches.

THE first is addressed to MUHAMMED ALÍ KHAN, Beglerbeg* of

^{*} Governor of Persia proper.

Fars, and must from its tenor have been written early in the year 1731, a few months previous to the dethronement of Shah Tamasp, which took place in the month of August of that year. Nadir Shah published, at the period at which he wrote this letter, a proclamation or manifesto addressed to the inhabitants of Persia, in which, after stating his own successes against the Afghans and the other enemies of his country, and the evils which appeared likely to arise from the shameful peace which had been concluded with the Turks, he announces his intention of marching after the feast of Nau Róz (which occurred that year on the 22d of Ramzan or 10th of March) and of not only obliging the Turks to consent to more just terms, but of depriving of dignity and power, and considering as insidels, all those who should oppose his intentions. This manifesto, as well as his letter to the Beglerbeg of Fars, sufficiently prove, that his designs were at that moment more directed against his own sovereign than that of Constantinople.

There is no epoch in the life of Nadir Shah at which he acted with more confummate art and policy, than upon this occasion. The crown of Persia was completely within his grasp. But he appears to have considered it as indispensable to have his right universally acknowledged by his countrymen before he seized it. He had within a period of thirteen years risen from obscurity to unrivalled pre-eminence in the service of his weak monarch; and, by his wonderful valor and conduct, had not only rescued his country from the Afghans, the Turks and the Russians, who, taking advantage of the decline of the Sofaviyah dynasty and consequent diffentions of the nobles of the empire, had made themselves masters of its richest cities and finest prov-

vinces; but he had revived the military spirit of the Persians, and roused a nation funk in sloth and luxury, to great and successful exertion. But neither this fuccess, the imbecility of SHAH TAMASP, nor a reliance upon his own fame and strength, could induce him to take the last step of usurpation, until he had by his arts excited a complete contempt in the minds of his countrymen for their reigning fovereign, and a pride in his glory, that was likely to make his elevation feem more the accomplishment of their wishes than of his ambition. The great ability with which he labored to effect this object, is admirably shown in his letter to MUHAMMED ALI' KHAN. He commences by stating his victories over the Afghans, whom he had not only completely expelled from the empire, but pursued into their own territories. He next exposes the impolitic and humiliating conditions of the treaty which the king had concluded with the Turkish government; and, on the ground of its bringing difgrace on Persia, afferts his right and intention, as the fuccefsful champion of the independence of his country, to abrogate the ignominious engagement; and, while he flatters the national spirit of the Persians by anticipating fuccess against their antient rivals the Turks, he endeavors to enflame all their bigotry by giving the color of religion to the cause which he has undertaken; and calls upon them, with the well feigned zeal of an enthusiast, to fight for the preservation and existence of the holy sect of Shiah, a schism which, as appears from his whole life, he always confidered to be a herefy, and which it was the first and last object of his reign to eradicate and destroy: and, to make the effect of this letter complete, he concludes it with the usual declaration of all Muhammedan leaders who have made religion the pretext of

war, that he should consider and punish as insidels all those that resuled their concurrence and aid in the sacred cause to which he professed himself devoted.

The second letter is from Delhi, and must have been written immediately after the arrival of Nadir Shah in that city, in the month of February 1738. It commences with a clear statement of the causes of his invasion of Hindustan; which is followed by a concise relation of his military operations, and a particular account of the celebrated battle of Karnál, in which he deseated the emperor of India. The account of occurrences before the action, the action itself, the subsequent visit which Nadir received from Muhammed Shah, and his resolution to replace that monarch upon the throne of his ancestors, are stated with equal perspicuity and force, and the whole of this letter is written in a less instated stile than any oriental composition of a similar nature which has fallen under my observation. It records events of almost unparalleled magnitude, and the expression is (as far as I can judge) never more warm than what the subject justifies, and indeed requires.

THESE letters are perhaps calculated to give the reader a more favorable impression of the character of Nadir Shah, than any thing before published relating to that great and successful conqueror; who is chiefly known in Europe by the report of his tyranny and cruelties, and above all by the massacre of Delhi, which reached European narrators through the exaggerated statements of the surviving inhabitants of that unfortunate city. It is far from my intention to trouble you with what the Persian advocates of Nadir Shah state in vindication of his conduct upon that memorable occasion; nor do I mean to enter in this place into

any inquiry regarding the character and actions of this extraordinary man; but you will, I am affured, forgive me, if I offer some observations on the manner in which the history of NADIR SHAH and of several other Asiatic princes of eminence have been given by European writers.

In describing eastern despots, there has often appeared to me a Aronger defire to fatisfy the public of the author's attachment to freedom and his abhorrence of tyranny, and despotic power, under every shape, than to give a clear and just view of those characters whose history was the immediate object of his labors. This usage may no doubt, in some points of view, appear laudable. It may have a tendency to impress those who peruse the work with a still greater love of the first of all human bleffings, rational liberty. But others, who look to a volume of Asiatic history with no other defire but that of obtaining historical truth, and a correct knowledge of the focial and political state of the nation that is described, will be disposed to regret that there was any prejudice on the mind of an author or translator, that gave him a bias unfavorable to the gratification of their hopes. They will wifh, that he had looked upon the political world with more toleration; and, though they may not cenfure his warm admiration of the government of his own country, they will lament the existence of a feeling which was adverse to an impartial consideration of events illustrative of the general history of the human mind, and which has led him to stamp with general and unqualified reprobation rulers, who, however low their pretensions may be rated, if tried by the standard of countries towards whom that over which they reigned had no one point of affinity, must have stood high in the scale, if measured by that more applicable principle, which takes as its foundation, the actual state of the community in which such characters were born, the means which they possessed, and the actions which they achieved; and, on this fair and just ground, pronounces with truth and discernment, on the right they had, from their qualities and achievements, to that pre-eminence which they attained.

If fuch an author were to write the history of NADIR SHAH, he would probably fee fomething more than a mere usurper and tyrant in the man, who, born in a low rank of life, at a period when his country was overrun by foreign invaders, raifed himself by the force of his own genius and courage to the highest military rank; attacked, defeated, and expelled every enemy from Persia; and afterwards, with the universal consent of his countrymen, seized the sceptre which his valor had faved, and which a weaker hand could not have wielded. Such an historian, after dwelling with pleasure if not enthufiafm, on the early events of his life, would accompany NADIR with fatisfaction in his war upon those barbarous Afghan tribes, who for a feries of years had committed the most horrid ravages in Persia; and though it would be impossible to commend the motives that led that monarch to attack the Emperor of India, the extraordinary valor and conduct which he displays in that enterprise, the exercise he gave by it to that military spirit which he had with fuch difficulty rekindled among his countrymen, and the magnanimity with which he restored the crown (which he had conquered) to the weak representative of the illustrious house of Timur, might, without offence to truth, be flated by fuch a writer in mitigation

of that infatiable defire of glory which prompted the enterprife, and of those excesses by which it was attended.

The actions of Nadir Shah, until the period of his return from India, are a theme of constant praise among his countrymen. Of the remainder of his life they say, that, though it was not unmarked by great deeds, it was too evident that he had become intoxicated with success, and no longer acted under the guidance of reason; and all Persian authorities agree, that, after he had in a paroxysm of rage, or rather madness, put out the eyes of his eldest fon Reza Kull Mirza, he became altogether insane. But neither this act of attrocity, nor the other cruelties which Nadir committed towards the close of his reign, have eradicated from the minds of his countrymen the sentiments of veneration which they entertain for his memory, as the deliverer of his country from its numerous, cruel and insolent enemies.

I MUST trust to your indulgence to excuse the length of this letter. If the accompanying translations are deemed worthy of being inserted in the transactions of the Asiatic Society, I hope to be able to forward hereaster others of a similar kind.

I am, My Dear Sir,
with fincere respect and esteem,
Yours faithfully,

BEREIT TO A STORY OF THE STORY

JOHN MALCOLM.

31st October, 1808.

TWEET IN VERY 150 CHIEF IS

LETTER I.

(Written before Nadir Shah ascended the throne,) addressed to Muhammed Ali Khan, Beglerbeg of Fars; and giving an account of the conquest of Herat.

To the highest of the exalted in station, the Chief of the great Nobles MUHAMMED ALI' KHAN, these happy tidings be conveyed.

AIDED by the bounty of an all powerful Creator, and the happy auspices of the house of Haider* and the twelve holy Imams (on whom be eternal mercy,) with my crescent-formed and all subduing scimitar, which in glory resembles the recent moon, and with my powerful and victorious army, and soldiers of propitious destiny, who are those sent from heaven, † I have, under the influence of good fortune, surpassed all others in the capture of fortresses and cities.

At this happy and auspicious period, the host of Afghans of the tribe of Abdalli, who sled from the edge of the conquering swords of my dragon-like warriors, retired, as a spider within its web, ‡ into the fort of Herat. Their hearts were distracted with sear, and the pillars of patience and fortitude, that had supported their resolution, were cast

^{*} ALI. Here the tribe of Shiahs are meant, who are supposed to be under ALI's protection, and in fact part of his family

[†] Sentences marked by italics, are passages from the Koran, of which I have concisely rendered the meaning.

‡ From the Koran. The passage literally signifies "like unto the spider that maketh himself

a house." But the weakest of all houses surely is the spider's.

down. Reduced to distress by the complicated evils of samine and of the sword, they implored mercy; and "as elemency is enjoined to the powerful," I permitted them to evacuate the fort; and have sent (with a view to disperse them) sixty thousand of this tribe with their families, who were reduced to great misery, to the city of Khar Shahyar in the province of Khorasan. By the savor and blessing of that omnipotent being, by whom I have been protested, the fort of Herat is in my possession; and the whole of the tribe of Afghans, as also of the Ghelyahs of Candahar, who were in the bonds of alliance with them, have submitted; and have placed upon their necks the collar of obedience,

In the midst of these actions, by which the whole country from Herat to Candahar has been completely subdued, and the disturbers of tranquillity on the borders of Khorasan exemplarily punished, I learn by a letter from Muhammed Reza Khan, who was sent ambassador to the court of Rúm, § that he has concluded a treaty with the king, by which it is agreed that the Turkish empire shall possess the territory on the other bank of the river Aras; and the Persian, all upon this: but no arrangement appears to have been made for the liberation of the prisoners of the sect of Ali who are confined in the Turkish dominions,

It is an incontestable truth, that the existence of humble persons, like us, who, from the savor of a divine providence, have obtained rank and pre-eminence over others, is for no other purpose than that we should be

A particular tribe of Afghans, 5 Constantinople,

the friends of the fect of Shiahi, that we should relieve the distress and dispel the grief of the poor and afflicted; ("for to protect the ruled is the duty of the ruler.") That we should combat the enemies of the weak, and eradicate the distemper of sedition from the body of the state: not that (deaf to the voice of the helpless and unmindful of those that are prisoners) we should break such facred engagements, to conciliate the approbation and yield to the power of a proud enemy.

By the great and powerful God, this day is big with ruin to their enemies and with joy to the sect of Shiahs, the discomsiture of the evil minded is the glory and exaltation of the followers of Als. When the avenger is at hand the wicked tremble and are appalled. Their eyes roll wildly like one in the agonies of death. Let the danger pass over, and it is forgatten. They revile and mack with their tongues.

This is a just description of the Turkish tribe. Why should we listen to more prevarications? Or why confine ourselves to the bank of the Aras;* when it is manifest, that the peace, which has been concluded, is contrary to the will of God and irreconcileable to the wisdom or dignity of imperial greatness.

I HAVE stated to the minister of the exalted prince, that such a peace cannot be permanent, and that I conclude the mission of an ambassador to have been an act of compulsion, as I cannot believe that the prince would, under other circumstances, have consented to such a degradation of his dignity. But at all events, as offerings are continually made in the palaces of the lords of the faithful, and the holy men with

a Araxes.

broken hearts are praying to their divine creator for the release of the Musulman prisoners; it was my determination, after receiving leave from the holy prince of regions * Ali IBN MAUSA REZA (on whom be eternal bleffings) to march on the second day after the feast of Feter * towards the disputed quarter, aided by the divine power, and accompanied by an army raging like the troubled ocean.

VERSE.

I shall overslow my banks, and sly like an impatient lover to his mistress; Like a torrent, will I rush, with my breast ever on the earth.

HAFIZ! if thy footsteps desire to gain, by the true path, the holy house, Carry along with thee the virtue of the exalted of Nejes.

I HAVE represented also, that I have fent the high in dignity, MAHSUM ALÍ BEG GERAILÍ, ambassador to the court of Rúm, and that he is attended by a respectable escort; and that he is fully acquainted with my wishes and sentiments.

You will no doubt be rejoiced to hear, that, as it was to be hoped from the goodness of God, this peace with the Turks is not likely to endure; and you may rest in expectation of my approach. For by the blessing of the most high, I will advance immediately, with an army elated with success, skilled in sieges, numerous as emmets, valiant as lions; and combining with the vigor of youth the prudence of age. I will attend on the exalted prince, and then proceed towards the Turkish frontier.

One of the twelve Imams, who died at Meshed in Khorasan, where he is buried.
 This feast happens at the conclusion of the month of Ramzan.

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to Day I we say both to

VERSE.

Let the cup-bearer tell our enemy, the worshipper of fire;

To cover his head with dust;

For the water, that had departed, is returned into its channel.

SUCH of the tribe of Shiahs, as are backward on this great occasion, and are reconciled to this shameful peace, should be expelled from the faithful seat; and for ever counted among its enemies. To slaughter them will be meritorious; to permit their existence, impious.

- " I have heard, that, during the reign of MUTASIM,
- " A woman of Ajim was taken by the foe:
- " Her eyes became channels for torrents of blood.
- " She thus complained of her wretched flate.
- " Oh MUTASIM! why art thou fupine? I call for justice!
- "Thy fubject is a prisoner in the hands of thine enemy.
- 66 Thou art the flame in the lamp of the country.
- 66 On thee depends the shame or glory of the nation.
- "Thou art the protector of the poor and wretched:
- " All their children are the children of their fovereign!
- 44 Her masters, astonished at these exclamations,
- " In rage struck her on the face;
- " And faid, " now let your monarch MUTASIM,
- With all the renowned heroes of Persia,
- " Collect an innumerable army,
- " And come, if they choose, to thy rescue."
- " This speech soon reached the great MUTASIM,
- " Who immediately published throughout Persia,
- " That all, who pretended to the name of men,
- " Should instantly affemble in arms.
- When the monarch had completed his mighty preparations,
- " He foon heaped destruction on the heads of his enemies."
- " To release one prisoner from the hand of the foe,

^{*} This story is related by historians, of MUTA'SIM, the son of HARUN AL RASHID, and eighth Khalif of the house of ABAS. D'Herbelot Bibl. Or. 639.

- " If an incomparable army were affembled,
- " At this moment, when numbers of the Shiahs of Persia
- " Are prifoners in the hand of cruel men,
- 44 And, with their lamentable cries uttered morn and eve,
- " Have rendered dark and gloomy the azure fky; was bard and a war.
- " It is acknowledged by the tribe of Shiahs,
- "That the king t of Khorasan, the Imam of the age,
- " Is not confidered by the men of Persia
- As less honorable, nor of lesser fame, than MUTASIM!
- Then, by the mercy and greatness of the creator, 1000 to the season and the seaso
 - " Victory is still declared to these soldiers.
 - " Under the auspices of the most merciful of the world,
 - " I have taken ample vengeance on the Afghans.
 - " Aided by the fortune of the lord of Khorasan,
 - " I have been revenged on the whole tribe of the Afghans.
 - "There remains not in this quarter, at this period, and to hamis a property of the
 - " Aught of that tribe but their name. I tomignit mode treates better their
 - " In this war great actions have been fought,
 - es The Kezel-bushes became each a sharp pointed thorn,
 - se From the flaughter that has been made, and the blood that has been shed,
 - " Our high polished scimitars have received a purple stain,
 - " I have taken from the worthless foe,
 - " With my fword, the region from Herat to Candabar!
 - " By the facred temple of the lord t of Nejef,
 - " We will turn with vehemence to that quarter:
 - " We will perform a pilgrimage to that threshold;
 - " And we will afford protection to our prisoners:
 - " We will take ample vengeance of the Turks.
 - " We will punish ; all our foes.
 - " And in this war, whoever continues inactive,
 - " Or from baseness remains in pretended ignorance,
 - " Both his property and his blood are lawful prize.
 - " He is to be considered out of the pale of the true faith."

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critish award of the Loude of Anne. D'Aleston St.

[†] ALI MAUSA REZA, the feventh Imam, buried at Meshed.

^{*} Persians; literally Redheads, a name given to them, from the circumstance of Shah Ismail having directed all true followers of the sect of Shiah to wear red caps.

⁺ ALi, the fon in law of the prophet who is buried at Nejef.

¹ Literally, furbish the garments.

Most Noble Lord, if the state of the province of Fars will permit, lose not a moment in repairing to the court of the most exalted prince at Ispahan; and represent to him that, as the peace which has been concluded will benefit no person whosoever, and can in no light be viewed as proper or reputable, it neither meets the approbation of the nobles nor the commonalty of the empire.

But, if you should be prevented from moving to the capital, owing to the dispute with the Arabs not being adjusted, let me be instantly informed. If you are able to quell these troubles, it is well. But, if you require aid, make me acquainted; and a detachment of my victorious army shall march to your support.

KEEP me regularly informed of the news of your quarter.

LETTER II.

From NADIR SHAH, to his son REZA KULI MIRZA, giving an account of the conquest of Delhi.

To the exalted and glorious fon of our wishes the valiant Reza Kuli Mi'rza, who is our vicegerent in Irán, the seat of our empire; our most beloved, the pre-eminent in royal rank, allied to us in dignity:—be these glorious commands known.

AGREEABLY to our former communications, after the defeat of the Afghan prince, Ashref Ali' Merdan Khan was appointed our ambaffador to the court of Hindustan for the purpose of representing to

that court, that as the turbulent Afghans of Candahar and its neighbouring provinces were to be confidered equal enemies to both states, it would be advisable to appoint an army from Hindustan, to occupy the passes and prevent the retreat of the marauders. The emperor Muhammed Shah gave a ready assent, and concluded a treaty to the proposed effect. After the return of our ambassador, we sent Muhammed Ali' Khan to the court of the Indian emperor to repeat our instances on this subject, and Muhammed Shah confirmed his former engagement.

AFTER our glorious and victorious standards returned to Candahar, we understood from our conquering generals employed with a part of our force in the reduction of the Afghans of Kallat and Ghizni, that Muhammed Shah had in no respect fulfilled his engagements; and that no appearance of an Indian army had been seen in that quarter. This intelligence induced us to send with the utmost expedition, Muhammed Khan Turkoman to the court of Delhi to remind the Emperor of his promises; but that sovereign and his ministers, in dereliction of their former engagements, treated the subject with neglect, omitted answering our letter, and even put restraint on the person of our ambassador.

In this situation we were impelled to march against the Afghans of Ghizni and Cabul, and after punishing the refractory mountaineers in that quarter, as we considered the neglect and contempt with which Muhammed Shah had behaved, and his conduct to our ambassador irreconcileable with friendship, we marched towards Shahjehanabad.

Kurr Minza, who is our vicegorent in ivan, the feat of our

OF our success in reducing the provinces of Peshavir and taking possession of Lahore, the former seat of empire, our beloved son has already been informed. We marched from that city the last day of Shaval, and on Friday the 10th of Zelkâd reached Ambala, forty farsakhs from Shâhjehânâbâd. We here learnt, that Muh'ammed Shah had collected from Hindustân and the Dec'hin a numerous force, and accompanied by all his nobles, by an army of three hundred thousand men, three hundred pieces of cannon, three or four hundred elephants, and other equipments in proportion, had marched from Delhi and arrived at Pánipet, a village twenty sarsakhs from Ambala. We immediately directed the supersuous and heavy baggage of our conquering army to be lest at Ambala, and advanced to meet the enemy. Muh'ammed Shah also lest Pánipet and marched to Carnál, which is twenty-sive sarsakhs from Delhi.

In the course of our march we detached a sorce of sive or six thousand men in advance, who had orders to observe the appearance, numbers and order of Muhammed Shah's army. This body, when about two sarsakhs from Carnál, sell in with the advance of the Hindustáni army, which amounted to twelve thousand men; these they attacked and totally routed; presenting us with their general and many others, whom they made prisoners.

This fignal defeat put a stop to Muhammed Shah's further advance. He halted at Carnál and surrounded his army with a trench: he also constructed ramparts and batteries on which he placed his cannon.

We had fent a detachment to march to the east of Muh'ammed Shah's camp and post themselves on the road that led to Delhi: this party received accounts on the night of Tuesday the 15th, that Saadet Khan, known by his title of Burhan ul Mulk, and one of the chief nobles of the empire had reached Malabat accompanied by an army of 30,000 men, a train of artillery, and a number of elephants, and intended forcing a junction with Muh'ammed Shah.

WITH a view of intercepting this force, we marched our army, two hours before day break, to the east of Carnál, and occupied the road between that village and Pánipet. This movement, we hoped, would force Muh'ammed Shah from his entrenchments. About an hour and a half after day light we had passed Carnál, and gained the east side of the Hindustáni camp, when the advance guard made prisoners some stragglers of Saadet Khan's party, from whose information we learnt, that that general had succeeded in his design of forming a junction with the emperor; in whose camp he had arrived at ten o'clock the preceding night.

On this intelligence we were pleased to order our royal tents to be pitched on the ground which we then occupied, opposite to the camp of Muhammed Shah, from whom we were distant about one farsakh.

As the junction of SAADET KHAN had been the cause of MUHAM-MED SHAH's delays, he conceived on that event his appointments to be complete; and, leaving two thirds of his cannon for the protection of his camp, he advanced with a great part of his army, a third of his artillery, and a number of his elephants, at twelve o'clock the same day,

half a farfakh in the direction of our royal army; and drew up his troops in order of battle. Placing himself in the centre of the advanced lines, he stationed the remainder of his troops in the rear as a support. Their numbers were incredible: They occupied, as close as they could be drawn up in depth, from the front line to the entrenched camp, a distance of half a farsakh; and their front was of equal extent. The ground was every where dark with their numbers, and to judge from appearance, we should suppose they were ten or twelve times more numerous than the army of the Abdal Gardoghly.

WE, whose only wishes were for such a day, after appointing guards for our camp and invoking the support of a bountiful creator, mounted and advanced to give battle.

For two complete hours the battle raged with violence, and a heavy fire from cannon and musquetry was kept up. After that, by the aid of the Almighty, our lion-hunting heroes broke the enemy's line, and chaced them from the field of action, dispersing them in every direction.

SAADET KHAN mounted on his state elephant, his nephew NISHA MUH'AMMED KHAN and other relations, fell prisoners into our hands. Samsa'm Alí Khan Dauran Amír ul Omra Baha'dur, the first minister of the empire, was wounded. One of his sons, with his brother Muzerer Khan, was slain; and another of his sons, Mir Aa'sh'ur, was taken prisoner. He himself died the following day of his wounds.

Was'ıli Khan, the commander of the emperor's body guard, Shad'ab Khan, Amir Kuli Khan, Ali Muhammed Khan, Mir

HUSEN KHAN, KHA'JA ASHREF KHAN, ALI-YAR KHAN, A'AKIL BEG KHAN, SHAHD'AD KHAN Afghan, AHMED ALÍ KHAN, RAZÌN RAI KHAN, commander of the artillery, as also Shir Khal'u, with about three hundred other nobles and leaders, of whom fifteen were commanders of seven thousand, of sour and of three thousand, were flain.

MUHAMMED SHAH, with NIZAM UL MULK, ruler of the feven provinces of the Dec'hin, and a chief noble of the empire, KAMER UL DI'N KHAN, chief vizier, and some other nobles of less note, protected by a covering party which had been lest, made good their retreat within the entrenchments, and escaped the shock of our victorious swords.

This action lasted two hours; and for two hours and a half more were our conquering soldiers engaged in pursuit. When one hour of the day remained, the field was entirely cleared of the enemy; and as the entrenchments of their camp were strong, and the fortifications formidable, we would not permit our army to assault it.

An immense treasure, a number of grand elephants, the artillery of the emperor, and great spoils of every description, were the reward of our victory. Upwards of twenty thousand of the enemy were slain on the field of battle, and a much greater number were made prisoners.

IMMEDIATELY after this action, we furrounded the emperor's camp, and took measures to prevent all communication with the adjacent country, preparing at the same time our cannon and mortars to level with the ground the fortifications which had been erected.

As the utmost confusion reigned in the imperial camp, and all discipline was abandoned, the emperor, compelled by irresistible necessity, after the lapse of one day, sent NIZAM UL-MULK, on Thursday the 17th, to our royal camp; and the day following MUHAMMED SHAH himself, attended by his nobles, came to our heaven-like presence, in an afflicted state.

WHEN the emperor was approaching, as we are ourselves of a Turkoman family, and Muh'ammed Shah is a Turkoman, and the lineal deseendant of the noble house of Gaurga'n's; we sent our dear son Nasir Ali Khan beyond the bounds of our camp to meet him. The
emperor entered our tents, and we delivered over to him the signet of
our empire. He remained that day a guest in our royal tent.

Considering our affinity as Turkomans, and also reflecting on the favors and honors that befitted the dignity and majesty of a king of kings; we bestowed such upon the emperor, and ordered his royal pavilions, his family, and his nobles, to be preserved; and we have established him in a manner equal to his great dignity:

At this time, the Emperor with his family and all the lords of Hindustan who marched from camp, are arrived at Dehli: and on Thursday the 29th of Zilkad, we moved our glorious standard toward that capital.

It is our royal intention, from the confideration of the high birth of Muhammed Shah, of his descent from the house of Gaurga'n's, and of his affinity to us as a Turhoman, to fix him on the throne of empire, and to place the crown of royalty upon his head.

PRAISE be to God, glory to the most high, who has granted us the power to perform such an action! For this great grace which we have received from the Almighty, we must ever remain grateful:

God has made the feven great feas like unto the vapour of the defart, beneath our glorious and conquering footsteps and those of our faithful and victorious heroes. He has made, in our victorious mind, the thrones of kings, and the deep ocean of earthly glory more despicable than the light bubble that floats on the surface of the wave; and no doubt his extraordinary mercy, which he has now shown, will be evident to all mankind.

As we have taken possession of a great number of cannon, we send 20,000 Moghals of Iran and Turan, with a detachment from our own conquering army, and a body of artillery with some large elephants, whom we have directed to march to Cabul. No doubt our sons will inform us of the affairs of that quarter.

AFTER the arrival of your letter, we will either order the detachment which we have fent, to proceed to Balkh or to go to Herat.

WE have appointed the high in dignity AASH'UR KHAN to march to Balkh, after the Nau roz, (22d March) which he no doubt will do.

Consider our glorious victory as derived from the bounty of the creator, and as an event of fortune beyond all calculation. Make copies of this our royal mandate and disperse them over our empire, that the well wishers of our throne may be happy and rejoice, and our secret enemies be dejected and consounded. Be you constantly employed in

adorning and arranging your government; placing your hopes in the favor of the most high, so that by the blessing of God, all those, whether near or distant, that are not reconciled to our glorious state, and are brooding mischief, may be caught in their own snares; and all real friends, who are under our dominion, may attain their wishes, and prosper under the auspices of our muniscent government,

Dated 29th Zilkad, 1115 Hejira, Shahjehanabad or Dehli,

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Errata.

Page 5, line 2, and Page 26, line 9, for stopped with a square board—read, excavated to a point.—Page 42, line 2, instead of persuaded—read, pursued.—The Appendix, mentioned at Page 91, relating to the origin of the Makrattas, is to be found in the IXth Volume, Page 233.—Page 99, last line but one from the bottom, for Abraia—read, Arabia.—Page 152, line 6th from the bottom, for a God—read, God.

I TAKE this opportunity to correct two passages in former Essays; one in the IVth Vol. of the Asiatic Researches, p. 382: and the second in the first part of my Essay on the Sacred Isles in the West, p. 302.

In the latter, I said that the famous PR'A'N-PURÍ went no further than El-Catif and Baharein, in his way to Egypt. But I was mistaken; for he even attempted to go up the Tigris, and went even as far as Moc'há.

In the former, I asserted that by the Surya-muc'hl-gangá, PR'A'N-PURÍ meant the Volga: but I was equally mistaken; for, from his narrative, he certainly understood the Shàt-al-A-rab, or the united stream of the Tigris and Euphrates.

I seldom saw Pa'a'n-purf, and he hardly condescended to answer my inquiries: hence the information which he communicated, was vague and desultory. I did not advert then to what Mr. Duncan has said on the subject in the Vth Vol. of the Asiatic Researches.

F. WILFORD.

Benares, Feb. 20th, 1808.

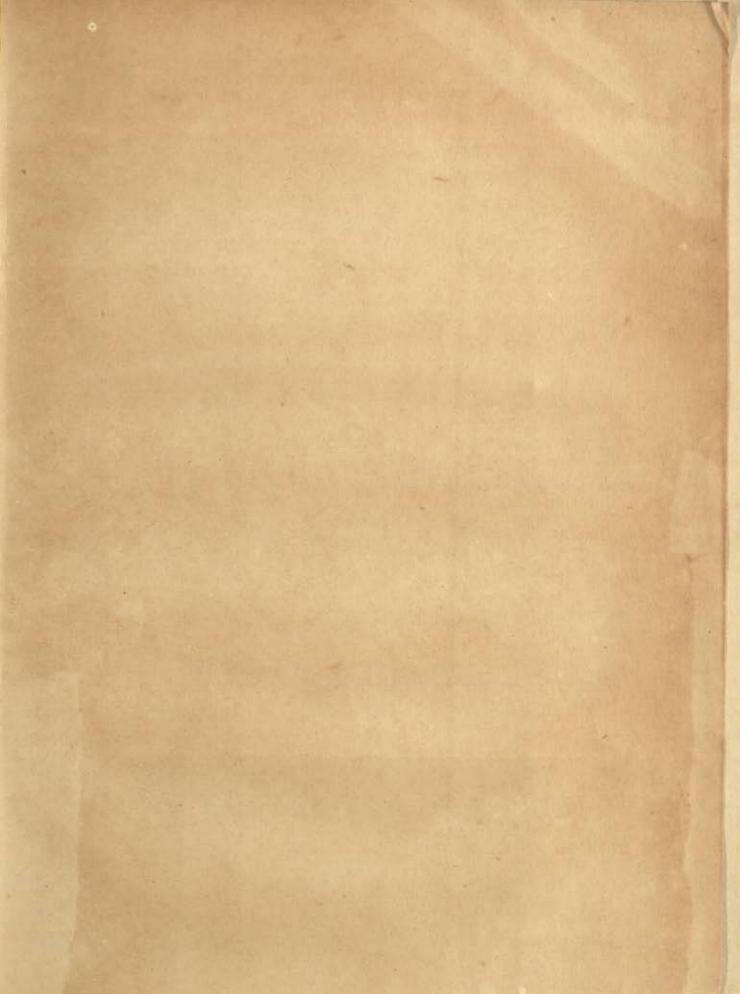
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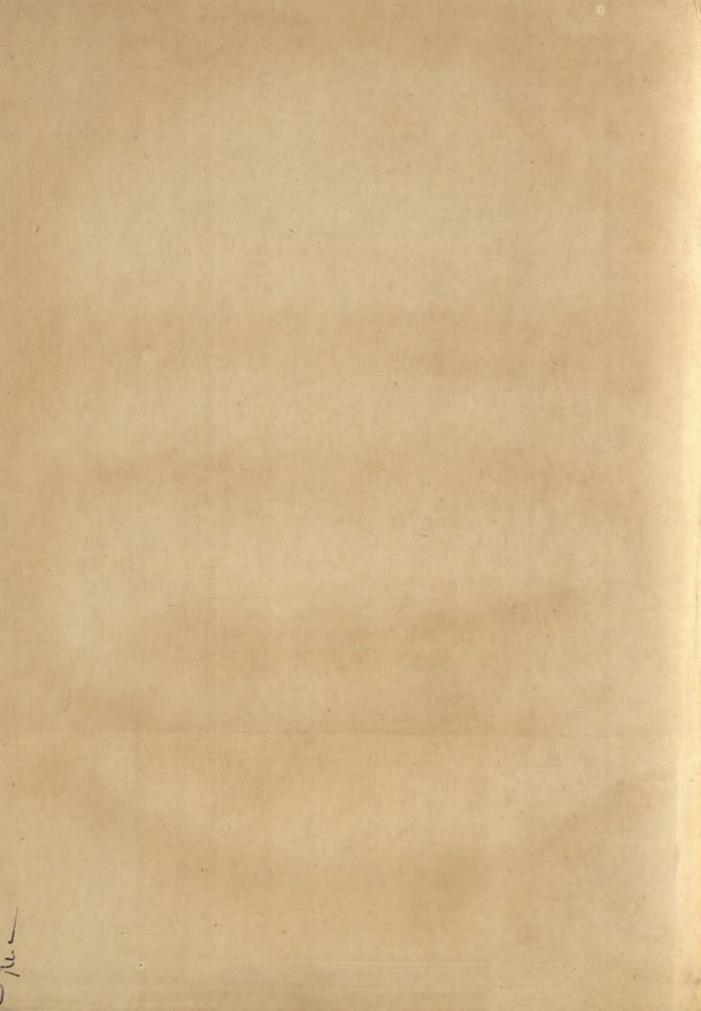
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